

Result No.	Score	Query	Match	Length	DB ID	Description
c 1	4.5	CW375149	627	13	CW375149	CW375149 fbb001f0
c 2	21	gb_est1:*	649	13	CW258112	CW258112 104 723_1
c 3	21	gb_est3:*	682	13	CW375148	CW375148 fbb001f0
c 4	21	gb_est1:*	983	13	CT013281	CT013281 KBH12111
c 5	21	gb_est5:*	999	14	DU750205	DU750205 ASNFL346
c 6	21	gb_est6:*	1217	12	CC314499	CC314499 TAM2-17E
c 7	20	gb_htc:*	245	13	CL219260	CL219260 ZMMBBC042
c 8	20	gb_est2:*	611	14	DX327753	DX327753 OR ABA024
c 9	20	gb_est7:*	613	9	CX687527	CX687527 ydb0c08.
c 10	20	gb_est8:*	626	9	CX688942	CX688942 yde22105.
c 11	20	gb_est9:*	640	10	DT673917	DT673917 s13dlt65C
c 12	20	gb_gss1:*	679	11	BH557567	BH557567 BOG092TF
c 13	20	gb_gss2:*	785	11	BZ162280	BZ162280 CH220-276
c 14	20	gb_gss3:*	896	3	BUT795670	BUT795670 SJE2DUA01
c 15	19	gb_gss4:*	41	1	BB212456	BB212456 BB212456
c 16	19	gb_gss5:*	281	7	BB369985	BB369985 BB369985
c 17	19	gb_gss6:*	288	3	BQ038976	BQ038976 WHE2843_B
c 18	19	gb_gss7:*	415	2	BG264482	BG264482 daab2112.
c 19	4.1	gb_gss8:*	422	12	CC812860	CC812860 ZMMBBC052

Post-processing: Listing first 45 summaries

ALIGNMENTS

RESULT 1
CW375149/c
LOCUS CM375149 627 bp DNA linear GSS 01-NOV-2004
DEFINITION fbb001f052g07k0 Sorghum methylation filtered library (libID: 104)
ORGANISM Sorghum bicolor genomic clone fbb001f052g07, genomic survey sequence.
ACCESSION CM375149
VERSION CM375149.1
KEYWORDS GSS,
SOURCE Sorghum bicolor (sorghum)
ORGANISM Sorghum bicolor
Spermatophyta; Magnoliidae; Andropogonaceae; Poales; Poaceae; PACCAD
clade; Panicoideae; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina;
Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina;

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%

REFERENCE 1 (bases 1 to 627)
AUTHORS Bedell,J.A., Budiman,M.A., Nunberg,A., Citek,R.W., Robbins,D., Jones,J., Flick,E., Rohlfing,T., Fries,J., Bradford,K., McMenemy,J., Smith,M., Holman,H., Roe,B.A., Wiley,G., Korf,I.F., Rabinowicz,P.D., Lakey,N., McCombie,W.R., Jeddolah,J.A. and Martinissen,R.A.

TITLE Sorghum genome sequencing by methylation filtration
JOURNAL PLoS Biol. 3 (1), e13 (2005)

PUBMED 1566054
COMMENT Contact: Bedell, JA
Orion Genomics, LLC
4041 Forest Park Ave, St. Louis, MO 63108, USA
Tel: 314 615 6979
Email: jbedell@oriongenomics.com
Plate: fbb001f052 row: g column: 07
Seq primer: k Reverse
Class: methylation filtered
High quality sequence stop: 627.
FEATURES Location/Qualifiers
Source 1. ·627
·organism="Sorghum bicolor"
·mol_type="genomic DNA"
·cultivar="Ax623"
·db_xref="taxon:4558"
·clone="fbb001f052g07"
·clone_lib="Sorghum methylation filtered library (libID: 104)"

/note="Organ: leaf; Vector: PBSK(-); Site_1: HincII; DNA prepared from purified nuclei was randomly sheared, end-repaired, size fractionated to enrich for the 0.5 to 5 kb fraction, ligated into HincII-digested PBSK(-) vector and electroporated into E. coli cells. This is a methylation filtered library."

ORIGIN

Query Match Score 21; DB 13; Length 627;
Best Local Similarity 100.0%; Pred. No. 7;
Matches 21; Conservate 0; Mismatches 0;
Indels 0; Gaps 0;

Qy 1 TGAAATAATGGAAACACACA 21
Db 467 TGAAATAATGGAAACACACA 447

RESULT 2
CW25811.2/c
LOCUS 258112 649 bp DNA linear GSS 30-OCT-2004
DEFINITION Sorghum bicolor (sorghum)
SEQUENCE 104 723 11227699 116 35158 066 Sorghum methylation filtered library
(LibID: "104") Sorghum_bicolor genomic clone 11227699, genomic survey sequence.

CW25811.2
GSS
Sorghum bicolor (sorghum)

Sorghum bicolor
Sorghum bicolor (sorghum)

Db 425 TGAATAATAATGGAAACACACA 405

RESULT 3
CW375148
LOCUS fabb001f052907f0
DEFINITION Sorghum bicolor genomic clone fabb001f052907, genomic survey sequence.

ACCESSION CM375148
VERSION CM375148.1
KEYWORDS GSS
ORGANISM Sorghum bicolor (sorghum)
Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACAD clade; Panicoideae; Andropogoneae; Sorghum.

1 (bases 1 to 682)
REFERENCE Bedell, J.A., Budiman, M.A., Nunberg, A., Citek, R.W., Robbins, D., Jones, J., Flick, E., Rohlfing, T., Fries, J., Bradford, K., McMenamy, J., Smith, M., Holman, H., Roe, B.A., Wiley, G., Korff, I.F., Rabinowicz, P.D., Lakey, N., McCombie, W.R., Jeddeloh, J.A. and Martienssen, R.A.
Methylation genome sequencing by methylation filtration

TITLE PLoS Biol. 3 (1), e13 (2005)
JOURNAL PLoS Biol.
PUBLMED 15660154
COMMENT Contact: Bedell, JA
ORGANISM Orion Genomics, LLC
SOURCE 4041 Forest Park Ave, St. Louis, MO 63108, USA
VERSION Tel: 314 615 6919
KEYWORDS Fax: 314 615 5975
REFERENCE Email: jbedell@oriongenomics.com
AUTHORS Plate: fabb001f052907
McMenamy, J., Smith, M., Holman, H., Roe, B.A., Wiley, G., Korff, I.F., Rabinowicz, P.D., Lakey, N., McCombie, W.R., Jeddeloh, J.A. and Martienssen, R.A.
TITLE Methylation genome sequencing by methylation filtration
JOURNAL PLoS Biol.
PUBLMED 15660154
COMMENT Contact: Bedell, JA
ORGANISM Orion Genomics, LLC
SOURCE 4041 Forest Park Ave, St. Louis, MO 63108, USA
VERSION Tel: 314 615 6979
KEYWORDS Fax: 314 615 5975
Email: jbedell@oriongenomics.com
Plate: 723 Row: O Column: 19
Seq. primer: T3 Reverse
Class: methylation filtered
High quality sequence stop: 649.
FEATURES Location/Qualifiers 1. .649
/organism="Sorghum bicolor"
/mol_type="Genomic DNA"
/cultivar="Atx23"
/db_xref="taxon:4558"
/clone_id="11227699"
/clone_lib="Sorghum methylation filtered library (LibID:
104)"
note="Organ: leaf; Vector: PBSK(-); Site_1: HincII; DNA prepared from purified nuclei was randomly sheared, end-repaired, size fractionated to enrich for the 0.5 to 5 kb fraction, ligated into HincII-digested PBSK(-) vector and electroporated into E. coli cells. This is a methylation filtered library."

ORIGIN

Query Match Score 21; DB 13; Length 682;
Best Local Similarity 100.0%; Pred. No. 7;
Matches 21; Conservative 0; Mismatches 0;
Indels 0; Gaps 0;

Qy 1 TGAATAATAATGGAAACACACA 21
Db 477 TGAATAATAATGGAAACACACA 497

RESULT 4
CT013281/c
LOCUS KBRH121117
DEFINITION Genomic clone, KBrH (HindIII) BAC library Brassica rapa
SUBSP. Pekinensis
ACCESSION CT013281
VERSION CT013281.1
KEYWORDS GSS
ORGANISM Brassica rapa subsp. pekinensis
Brassica rapa subsp. pekinensis
Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina

Query Match Score 21; DB 13; Length 649;
Best Local Similarity 100.0%; Pred. No. 7;
Matches 21; Conservative 0; Mismatches 0;
Indels 0; Gaps 0;

Qy 1 TGAATAATAATGGAAACACACA 21

REFERENCE Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
1 rosids; eurosids II; Brassicales; Brassicaceae; Brassica.
AUTHORS Viehoever, P.; Holtgraeve, D. and Weisshaar, B.
TITLE BAC end sequences of *Brassica rapa*
JOURNAL Unpublished
REFERENCE Li, Y. and Weisshaar, B.
AUTHORS
TITLE Direct Submission
JOURNAL Submitted (09-AUG-2005) Weisshaar B., Bielefeld University,
Bielefeld, Germany
COMMENT Contact: Bernd Weisshaar
Bielefeld University, Institute for Genome Research
Universitaetstrasse 25, D-33594 Bielefeld, Germany Email:
bernd.weisshaar@uni-bielefeld.de
BAC end sequences of *Brassica rapa* BAC clone KBpH121I17; Generated
as contribution to the 'Multinational Brassica rapa Sequencing
Project', Seq primer: 5'GTAGGTGACACTATAG
Class: BAC ends
Location/Qualifiers

FEATURES source
1. .983
/organism="Brassica rapa subsp. pekinensis"
/mol_type="Genomic DNA"
/strain="Chiifu type 401-42"
/cultivar="Chiifu"
/sub_species="pekinensis"
/db_xref="taxon:5151"
/clone="KBpH121I17"
/clone_id="KBpH, Brassica rapa HindIII BAC library
GP-SCF-1002, Vector: pCUCIBac1"
/lab_host="E.coli DH10B"

ORIGIN Query Match 4.5%; Score 21; DB 14; Length 983;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 324 TTGGTATGATGTTCTCT 344
Db 821 TTGGTATGATGTTCTCT 801

RESULT 5
DU750205 LOCUS DUT50205 999 bp DNA linear GSS 27-JAN-2005
DEFINITION ASNPF1346_92 HF130_10-06-02 uncultured marine microorganism
HF130_10-06-02 genomic clone HF0130_014B01, Genomic survey
sequence
ACCESSION DU750205
VERSION 1
KEYWORDS Frigaard, N.U., Martinez, A., Mincer, T., Rich, V., Hallam, S.J., Holm, S.W.
and Karl, D.M.
ORGANISM Comparative genomics reveals ecological trends in stratified
microbial communities in the ocean's interior
Science (2006) In press
COMMENT Contact: Susan Lucas, Alex Copeland, Sam Pitluck, Alla Lapidus,
and Edward DeLong
US DOE Joint Genome Institute
2800 Mitchell Drive B100, Walnut Creek, CA 94598-1698, USA
Tel: 617-253-5271
Fax: 617-253-2679
Email: PMRichardson@lbl.gov; delong@mit.edu

REFERENCE North Pacific Subtropical Gyre (Hawaii) picoplankton genomic fosmid
DNA library prepared from marine picoplankton in the less than 1.6
um, greater than 0.22 um fraction. Sample Date: 10/6/2002
Coordinates: 22.45 N, 158 W Depth 130 m Temperature: 22.19 C
Salinity: 35.31 psu Oxygen: 204.9 umol/kg
CLASS Fosmid ends
LOCATION/QUALIFIERS
1. .999
/organism="uncultured marine microorganism HF130_10-06-02"
/mol_type="genomic DNA"
/db_xref="taxon:361146"
/clone="HF0130_014B01"
/cell_type="marine picoplankton, less than 1.8 um, greater
than 0.22 um fraction"
/clone_lib="HF130_10-06-02"
/note="vector: pCC1POS; North Pacific Subtropical Gyre
(Hawaii) picoplankton genomic fosmid DNA library prepared
from marine picoplankton in the less than 1.6 um, greater
than 0.22 um fraction. Picoplankton collected at 130 m
depth on 10/6/2002. Coordinates: 22.45 N 158 W. Sample
date: 10/6/2002. Coordinates: 22.45 N, 158 W. Depth 130 m
Temperature: 22.19 C Salinity: 35.31 psu Oxygen: 204.9
umol/kg"
ORIGIN Query Match 4.5%; Score 21; DB 14; Length 999;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 254 AGAAGAGCGATGGGTGATT 274
Db 261 AGAAGAGCTGATGGGTGATT 281
RESULT 6
CC314499/c LOCUS CC314499 1217 bp DNA linear GSS 14-MAY-2003
DEFINITION TAM32-17E11 EC1.1 TAM32 Gallus gallus genomic clone TAM32-17E11
genomic survey sequence.
ACCESSION CC314499
VERSION CC314499.1
KEYWORDS GSS.
SOURCE Gallus gallus (chicken)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Phasianinae; Gallus; Phasianidae; Galliformes; Phasianidae;
Archosauria; Aves; Neognathae; Galliformes
REFERENCE 1 (bases 1 to 1217)
AUTHORS Kremitski, C., Hoggginbotham, J., Wylie, K., Carter, J., McPherson, J.,
Warren, W., Graves, T., Marais, E. and Wilson, R.
TITLE Gallus gallus BAC End Reads
JOURNAL Unpublished (2003)
COMMENT Contact: Richard K. Wilson
Genome Sequencing Center
Washington University School of Medicine
Email: submissions@watson.wustl.edu
Insert Length: 152000 Std Error: 0.00
Seq primer: EC1 TACGACTCTATAAGGGCG
Class: BAC ends
High quality sequence start: 19
High quality sequence stop: 763.
LOCATION/QUALIFIERS
1. .1217
/organism="Gallus gallus"
/mol_type="genomic DNA"
/strain="Red Jungle Fowl"
/db_xref="taxon:9031"
/clone="TAM32-17E11"
/sex="female"
/cell_line="UCD001, inbred 256"
/clone_lib="TAM32"
/note="vector: PECBAC1; Site_1: EcoRI; Site_2: EcoRI;
TAM32 Female Chicken library - for library and Clone
ordering information: http://www.hbz.tamu.edu"
ORIGIN

Query Match Similarity 100.0%; Pred. No. 7.3; Matches 21; Conservative 0; Mismatches 0; Gaps 0;	Qy 1 TGAAATAATGGACACACA 21 Db 7TGAAATAATGGACACACA 695	AUTHORS Kim, H.; Collura, K.; Wissotski, M.; Byrne, M.; Stumm, D.; Smart, D.; Rao, K.; Luo, M.; Jetty, R.; Kudrna, D.; Muller, C.; Soderlund, C. and Wing, R.
Unpublished (2005) - Arizona Genomics Institute		TITLE GSS 20-JAN-2006
Contact : Rod A. Wing		JOURNAL OR_Aba0248005
Arizona Genomics Institute		COMMENT
University of Arizona		
Forbs Building Room 303, Tucson, AZ 85721-0036, USA		
Tel: 520 626 9595		
Fax: 520 621 1259		
Email: rwing@genome.arizona.edu		
Plate: 0248 row: O column: 05		
Class: BAC ends.		
Location/Qualifiers		
1. .611		
/organism="Oryza ridleyi"		
/mol type="genomic DNA"		
/db_xref="taxon:83108"		
/clone="OR_Aba0248005"		
/tissue type="Leaves"		
/lab_host="DH10B"		
/clone_1ib="OR_Aba"		
/note="Vector: PAGIBAC1; Site_1: HindIII; Site_2: HindIII"		
FEATURES source		
DEFINITION genomic survey sequence.		
ACCESSION CL219260		
VERSION GI:40751934		
KEYWORDS GSS.		
SOURCE Zea mays		
ORGANISM Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.		
REFERENCE Bharti, A.K., Young, S., Kavchok, S., Keizer, G., Bronzino, A.C., Zohoretz, V., Fuks, G., Yu, Y., Wing, R. and Messing, J.		
TITLE Sequencing of the maize genome at PGIR (2003c)		
JOURNAL Unpublished (2003)		
COMMENT Contact: Bharti, A.K. Dr. Joachim Messing's lab The Plant Genome Initiative at Rutgers, Waksman Institute, Rutgers University 190 Frelinghuysen Road, Piscataway, NJ 08854, USA Tel: 732 445 3801 Fax: 732 445 5735 Email: bharti@waksman.rutgers.edu		
CLASS: BAC ends.		
FEATURES source		
DEFINITION Sea urchin EST clone ydd80c08 5'		
LOCUS CX687527		
DEFINITION ydd80c08.y2 Sea urchin EST Libi Strongylocentrotus purpuratus EST 19-JAN-2005		
ACCESSION CX687527		
VERSION GI:51948974		
KEYWORDS EST.		
SOURCE Strongylocentrotus purpuratus		
ORGANISM Strongylocentrotus purpuratus Eukaryota; Metazoa; Echinodermata; Elettherozoa; Echinozoa; Echinoidea; Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae; Strongylocentrotus.		
REFERENCE 1 (bases 1 to 613)		
AUTHORS Coffman, J.A., Robertson, A.J., Clifton, S., Page, D., Hillier, L., Martin, J., Wyllie, T., Dante, M., Meyer, R., Theising, B., Bowers, Y., Wilson, R., Ronko, I.I., Tsagkaleishvili, R., Ritter, E., Kennedy, S. and WashU Sea Urchin EST Project		
TITLE WashU Sea Urchin EST Project		
JOURNAL Unpublished (2004)		
COMMENT Contact: Dr. James A. Coffman WashU Sea urchin EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@wustl.edu		
FEATURES source		
DEFINITION DNA sequencing by: Washington University Genome Sequencing Center		
LOCUS DX327753		
DEFINITION Seq primer: -20RPr0T		
ACCESSION OR_Aba0248005.x		
VERSION 3		
KEYWORDS genomic survey sequence.		
REFERENCE DX327753.1 GI:85604539		
ORGANISM GSS.		
ORGANISM Oryza ridleyi		
ORGANISM Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; Spermatophytina; Magnoliophytina; Liliopsida; Poales; Poaceae; BEP clade; Euthartoidea; Oryzeae; Oryza.		
REFERENCE 1 (bases 1 to 611)		

/note="Vector: pCMVSPORT6.1 (Invitrogen); Site 1: NotI; Site 2: SmaI; Arrayed normalized library of full-length cDNAs representing blastula stage transcriptome of the sea urchin *Strongylocentrotus purpuratus*, cloned into the vector pCMVSPORT6.1 (Invitrogen)"

ORIGIN

Query Match	4.3%;	Score 20;	DB 9;	Length 613;
Best Local Similarity	100.0%;	Pred. No. 26;	0;	Gaps 0;
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	
Qy	1.01 ACGTGACTGAGCGAGATT 120			
Dy	5.02 ACGTGACTGAGCGAGATT 521			

RESULT 10

CX688942	CX688942	626 bp mRNA linear EST 19-JAN-2005
LOCUS	yde22f05.y2	Sea urchin EST Libl Strongylocentrotus purpuratus CDNA clone yde22f05 5', mRNA sequence.
DEFINITION		
ACCESSION	CX688942	
VERSION	1	
KEYWORDS	EST.	
SOURCE	Strongylocentrotus purpuratus	
ORGANISM	Bukaryota; Metazoa; Echinodermata; Eutherozoa; Echinozoa; Euechinoidae; Echinacea; Echinoidea; Strongylocentrotidae; Strongylocentrotus.	

REFERENCE

AUTHORS	1 (bases 1 to 626) Robertson, A.J., Clifton, S., Pape, D., Hillier, L., Coffman, J.A., Martin, J., Wylie, T., Dante, M., Meyer, R., Theising, B., Bowers, Y., Gibbons, M., Ronko, I., Tsagareishvili, R., Ritter, E., Kennedy, S., and Wilson, R.
---------	---

JOURNAL

COMMENT	Unpublished (2004)
---------	--------------------

TITLE

WashU Sea Urchin EST Project	Contact: Dr. James A. Coffman
------------------------------	-------------------------------

WashU Sea Urchin EST Project

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

DNA sequencing by: Washington University Genome Sequencing Center

Seq primer: -28RPTT

High quality sequence stop: 626.

FEATURES

source	/organism="Strongylocentrotus purpuratus"
	/mol_type="mRNA"
	/db_xref=taxon:7668"

RESULT 10

BH557567/c	679 bp DNA linear GSS 14-DEC-2001
LOCUS	BH557567
DEFINITION	BOGO2TF BOGO Brassica oleracea genomic clone BOOG92, genomic survey sequence.
ACCESSION	BH557567
VERSION	BH557567.1
KEYWORDS	GI:17803347
SOURCE	Brassica oleracea
ORGANISM	Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicots; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Brassica.

REFERENCE

AUTHORS	1 (bases 1 to 679) Ayale, M., Haas, B.J., Kumar, N., Wu, H., Xiao, Y., Van Aken, S., Utterback, T.R., Wortman, J.R., White, O.R. and Town, C.D.
---------	---

JOURNAL

Genome Res.	15 (4), 487-495 (2005)
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PUBMED

COMMENT

Other GSSs: BOOG92TR

Contact: Chris Town

TIGR

RESULT 11

DT673917/c	DT673917	640 bp mRNA linear EST 09-SEP-2005
LOCUS		

ORIGIN

Query Match	4.3%;	Score 20;	DB 9;	Length 626;
Best Local Similarity	100.0%;	Pred. No. 26;	0;	Gaps 0;
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	
Qy	1.01 ACGTGACTGAGCGAGATT 120			
Dy	4.78 ACGTGACTGAGCGAGATT 497			

Tel: 301-838-3523
 Fax: 301-838-0208
 Email: cdtown@tigr.org
 DNA is from a doubled haploid provided by Tom Osborn.
 Seq primer: TF
 Class: sheared ends.

FEATURES

source	Location/Qualifiers
1.	.679
Qy	/organism="Brassica oleracea" /mol_type="genomic DNA" /strain="T01000D3" /db_xref=taxon:3712" /clone=BOGC92" /clone_lib=BOGO"
Db	206

/note="Vector: pHSI; Site 1: BstXI; 2-3 kb sheared genomic DNA inserted into pHSI using BstXI linkers"

ORIGIN

Query Match	Score 20;	DB 11;	Length 679;
Best Local Similarity 100.0%;	Pred. No. 26;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;
		Gaps 0;	

Qy 326 GGTAAATGATGGTTCTTC 345
 Db 107 GGTAAATGATGGTTCTTC 88

RESULT 13
 BZ162280/c BZ162280 785 bp DNA linear GSS 11-OCT-2002 LOCUS CH230-276024.TV CHORI-210 Segment 2 Rattus norvegicus genomic clone DEFINITION CH230-276024, genomic survey sequence.

ACCESSION BZ162280
VERSION BZ162280.1
KEYWORDS GI:23803252
SOURCE GSS.
ORGANISM Rattus norvegicus (Norway rat)
REFERENCE Shvarcbein,A., Metzko,A., Chordata; Craniata; Vertebrata; Euteleostomi;
 Sciuognathi; Muroidea; Muridae; Murinae; Rodentia;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rattus.
AUTHORS Zhao,S., Shetty,J., Shateman,S., Teegave,G., Geer,K., D., Chen,D., Riggs,F., de Jong,P., and Fraser,C.M.
TITLE Rat BAC End Sequences from Library CHORI-230 MboI segment Unpublished (1999)
COMMENT Other GSS: CH220-276024.TV
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230 (<http://www.chori.org/bacpac/rat230.htm>). For BAC library availability, please contact Pieter de Jong (pdejong@mail.cho.org). Clones may be purchased from BACPAC Resources (<http://www.chori.org/bacpac/or ering-information.htm>). BAC end page: http://www.tigr.org/cdb/bac_ends/rat/bac_end_intro.html
 Place: 276 row: 0 column: 24
 Seq Primer: T7
FEATURES

source	Location/Qualifiers
1.	.785
Qy	/organism="Rattus norvegicus" /mol_type="genomic DNA" /strain="BN/SANHsd/MCW" /db_xref="taxon:10116" /clone="CH230-276024" /cell_type="Brain" /clone_lib="CHORI-230 Segment 2"
Db	24

RESULT 14
 BUT95670 LOCUS BUT95670_01 mRNA Schistosoma japonicum cDNA, mRNA sequence.

DEFINITION BUT95670_01 GI:28552677 EST.

KEYWORDS Schistosoma japonicum
 Schistosoma japonicum
 Schistosomatidae; Schistosomatida; Digenea; Strigeida; Schistosomatida; Schistosoma.

REFERENCE Hu,W., Yan,Q., Shen,D.K., Liu,F., Zhu,Z.D., Song,H.D., Xu,X.R., Wang,Z.J., Rong,Y.P., Zeng,L.C., Wu,J., Zhang,X., Wang,J.J., Xu,X.N., Wang,S.Y., Fu,G., Zhang,X.L., Wang,Z.Q., Brindley,P.J., McManus,D.P., Xue,C.L., Feng,Z., Chen,Z., and Han,Z.G. Evolutionary and biomedical implications of a Schistosoma japonicum complementary DNA resource Nat. Genet. 35 (2), 139-147 (2003)

JOURNAL JOURNAL
PUBMED 12973149
COMMENT Contact: Zeguang Han
 Chinese National Human Genome Center at Shanghai
 351 Guo Shou Jiang Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
 201203, P. R. China
 Tel: 86-21-50801919 (ex.45)
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 Email: hanzg@chgc.sh.cn.

FEATURES

source	Location/Qualifiers
1.	.896
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Db	24

ORIGIN

Query Match	Score 20;	DB 3;	Length 896;
Best Local Similarity 100.0%;	Pred. No. 26;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;
		Gaps 0;	

Qy 3 APPATAATGGACACAT 22
 Db 704 APPATAATGGACACAT 723

RESULT 15
 BB12456/c LOCUS BB12456
DEFINITION BB12456 RIKEN full-length enriched, 0 day neonate thymus Mus
ACCESSION BB12456
VERSION BB12456
KEYWORDS BB12456
SOURCE BB12456
ORGANISM Mus musculus (house mouse)

REFERENCE	AUTHORS	JOURNAL	COMMENT	FEATURES	source	
	Mammalia; Butheria; Euarchontoglires; Glires; Rodentia; Sciurognathii; Muroidea; Muridae; Murinae; Mus. 1 (bases 1 to 230)					
	Konno, H., Aizawa, K., Akahira, S., Akiyama, J., Arakawa, T., Carninci, P., Endo, T., Fukuda, S., Fujinishi, Y., Hara, A., Hayatsu, N., Hirozane, T., Horii, F., Ishii, Y., Ishikawa, J., Ishitaka, T., Itoh, M., Izawa, M., Kadota, K., Kagawa, I., Kai, C., Kawai, J., Kikuchi, N., Kiyosawa, H., Koijim, Y., Kondo, S., Kurihara, C., Kusakabe, M., Matsumura, T., Mikita, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y., Ono, T., Owa, C., Saito, H., Sakai, C., Sato, K., Shibata, K., Shibata, Y., Shigemoto, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Sugahara, Y., Suzuki, H., Suzuki, H., Tagawa, A., Takahashi, F., Tominaga, N., Toya, T., Tsunoda, Y., Watanuki, A., Watanabe, S., Yamamoto, T., Yamamoto, I., Yano, R., Yasunishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M., Muramatsu, M., and Hayashizaki, Y.	RIKEN Mouse ESTs (Konno, H., et al.) Unpublished (2000)	Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9222 Fax: 81-45-503-9216			
	Carninci, P., Nishiyama, Y., Webcover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.		Email: genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/ Carninci, P., Nishiyama, Y., Webcover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Thermostabilization and thermoactivation of thermostable enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998) Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.			
			Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999) Carninci, P. and Hayashizaki, Y.			
			High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1998)			
			Please visit our web site (http://genome rtc.riken.go.jp) for further details.			
				location/Qualifiers		
				1. .230		
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				/note="Site 1: Site 1: BamHI; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5', GAGAGAGAGAGCAAGCACTCCAGGCTCTCTTTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCAGTTAAATTAAATCCCCCCCC 3']. cDNA was cleaved with XbaI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda PLC I."		
						ORIGIN
					Query Match 4.1%; Score 19; DB 7; Length 230; Best Local Similarity 100.0%; Pred. No. 90;	

ପ୍ରକାଶ ମନୋରାଜ (ମୁଦ୍ରଣ)

Maximum DB seq length: 2000000000

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	c 4	19	4.1	1458	9	US-11-056-724-62	Sequence 3, Appli
	c 5	19	4.1	1461	9	US-11-056-355B-724-10	Sequence 10, Appli
	c 6	18	3.8	575	8	US-11-266-748A-61868	Sequence 72462, A
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RESULT 2
US-10-764-316-3 Application US/10764316
; Sequence 3, Application US/10764316
; Publication No. US20060127359A1
; GENERAL INFORMATION: MICHAEL J.
; APPLICANT: BORELLI, MICHAEL J.
; TITLE OF INVENTION: THERAPY USING CYTOLETHAL DISTENDING TOXIN
; FILE REFERENCE: 10346-109
; CURRENT APPLICATION NUMBER: US/10/764, 3.16
; CURRENT FILING DATE: 2004-01-23
; PRIORITY APPLICATION NUMBER: 60/442, 473
; PRIORITY FILING DATE: 2003-01-24
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO: 3
; SOFTWARE: PatentIn Ver. 3.3
; LENGTH: 2305
; TYPE: DNA
; ORGANISM: Escherichia coli
; LENGTH: 412
; TYPE: DNA
; ORGANISM: Escherichia coli
; LENGTH: 412
; SEQ ID NO: 10

RESULT 2
US-11-136-524-10
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; Publication No. US200615083A1
; GENERAL INFORMATION: HEAT ACTIVATED GENE
; APPLICANT: BEKAL, Sadia
; TITLE OF INVENTION: ARRAY AND USES THEREOF
; FILE REFERENCE: 86369-3
; CURRENT APPLICATION NUMBER: US/11/136, 5.24
; CURRENT FILING DATE: 2005-05-25
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 10

Query Match 64.1%; Score 300; DB 8; Length 412;
Best Local Similarity 100.0%; Pred. No. 4.3e-159;
Matches 300; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 229 AGTAATAYCTTCCGATTTGTTCAAACAGAAGCTGATGGGTGATTACCTCTTC 288
Db 61 ATGATRACCTGGATTGTTCAAGCAGAGCTGATGGGTGATTACCTCTTC 120
Qy 289 AACTGTTGTTATCACGACCGATCATCGCATTAGATGTTAATGATGTTTCCTCAAC 348
Db 121 AACGTTGTTATCACGACCGATCATCGCATTAGATGTTAATGATGTTTCCTCAAC 180
Qy 349 CCATGCAATTGGCCAAATCGGGCTGATTCAAGGAAATTGTTGAGTT 240
Db 181 CCATGCAATTGGCCAAATCGGGCTGATTCAAGGAAATTGTTGAGTT 468
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Db 241 CCTCAACAGACAACGGATCCTATAAGCAGGCCGTAACTGGATATTGCAAGGATT

RESULT 4
US-11-05-355B-72452/c
; Sequence 72452, Application US/11056355B
; Publication No. US200615083A1
; GENERAL INFORMATION:
; APPLICANT: Brover, Vyacheslav
; ADDRESS: Aleksandrov, Nikolaev
; TITLE OF INVENTION: Sequence Determined DNA Fragments and Corresponding
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 2750-1590PUS2
; CURRENT APPLICATION NUMBER: US/11/056, 355B
; CURRENT FILING DATE: 2005-02-14
; PRIORITY APPLICATION NUMBER: 60/544, 190
; PRIORITY FILING DATE: 2004-02-13
; NUMBER OF SEQ ID NOS: 11966
; SEQ ID NO: 72462
; LENGTH: 1458
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; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1458)
; OTHER INFORMATION: Ceres Seq. ID no. 4935487
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; NAME/KEY: misc_feature
; LOCATION: (1)..(1458)
; OTHER INFORMATION: Ortholog of Ceres SEQ ID NO 13574398
; OTHER INFORMATION: as cited in SEQ ID NO 0
; US-11-05-355B-72462

Query Match 4.1%; Score 19; DB 9; Length 1458;

RESULT 3
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; Sequence 10, Application US/11136524

Best Local Similarity 100.0%; Pred. No. 3.5; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 5

; Sequence 72470, Application US/11056355B
; Publication No. US20060150283A1
; GENERAL INFORMATION:
; APPLICANT: Brover, Vyacheslav
; APPLICANT: Alexandrov, Nickolai
; TITLE OF INVENTION: Sequence Determined DNA Fragments and Corresponding Polypeptides Encoded Thereby
; FILE REFERENCE: 2750-1590PUS2
; CURRENT APPLICATION NUMBER: US/11/056,355B
; CURRENT FILING DATE: 2005-02-14
; PRIOR APPLICATION NUMBER: 60/544,190
; PRIOR FILING DATE: 2004-02-13
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; NAME/KEY: misc_feature
; LOCATION: (1)..(161)
; OTHER INFORMATION: Ceres Seq. ID no. 4935571
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(161)
; OTHER INFORMATION: Ortholog of Ceres SEQ ID NO 13574398
; OTHER INFORMATION: as cited in SEQ ID NO 0
; US-11-056-355B-72470

Query Match 4.1%; Score 19; DB 9; Length 1461;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 243 TTGTTTCAACAGAGAGC 261
Db 1284 TTGTTTCAACAGAGAGC 1266

RESULT 6

; Sequence 61868, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and Methods of Using the Same
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 56315-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276

Query Match 3.8%; Score 18; DB 8; Length 575;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 331 TGATGTTTCTCTTCAC 348
Db 90 TGTGTTTCTCTTCAC 73

RESULT 7

; Sequence 3167, Application US/10953349
; Publication No. US20060107345A1
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; FILE REFERENCE: 2750-1579PUS2
; CURRENT APPLICATION NUMBER: US/10/953,349
; CURRENT FILING DATE: 2004-09-30
; NUMBER OF SEQ ID NOS: 40252
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3167
; LENGTH: 691
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-10-953-349-3167/c

Query Match 3.8%; Score 18; DB 6; Length 691;
Best Local Similarity 100.0%; Pred. No. 12;

```

US-11-266-748A-281826
; Sequence 281826, Application US/11266748A
; Publication No. US2006014663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and Methods of Using the Same
; FILE REFERENCE: 56115-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,233
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 281826
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-281826

Query Match 3.8%; Score 18; DB 8; Length 1000;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 327 GTAATGATGTTCTCTT 344
Db 870 GTAATGATGTTCTCTT 887

RESULT 12
US-11-266-748A-308465/C
; Sequence 308465, Application US/11266748A
; Publication No. US2006014663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and Methods of Using the Same
; FILE REFERENCE: 58115-0102 (319189)
; CURRENT APPLICATION NUMBER: EP 04105479.2
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,233
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 308465
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-308465

Query Match 3.8%; Score 18; DB 8; Length 1000;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 327 GTAATGATGTTCTCTT 344
Db 870 GTAATGATGTTCTCTT 887

RESULT 14
US-11-266-748A-481662/C
; Sequence 481662, Application US/11266748A
; Publication No. US2006014663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and Methods of Using the Same
; FILE REFERENCE: 58115-0102 (319189)
; CURRENT APPLICATION NUMBER: EP 04105479.2
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,233
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 481662
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-481662

Query Match 3.8%; Score 18; DB 8; Length 1000;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 327 GTAATGATGTTCTCTT 344
Db 870 GTAATGATGTTCTCTT 887

```

TITLE OF INVENTION: Methods of Using the Same
 FILE REFERENCE: 55915_0102 (319189)
 CURRENT APPLICATION NUMBER: US/11/256,748A
 CURRENT FILING DATE: 2005-11-03
 PRIOR APPLICATION NUMBER: EP 04105479.2
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: EP 04105482.6
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: EP 04105483.4
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: EP 04105507.0
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: EP 04105485.9
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: EP 04105484.2
 PRIOR FILING DATE: 2004-11-03
 PRIOR APPLICATION NUMBER: US 60/662,276
 PRIOR FILING DATE: 2005-03-14
 PRIOR APPLICATION NUMBER: US 60/700,293
 PRIOR FILING DATE: 2005-07-18
 NUMBER OF SEQ ID NOS: 483996
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 481662
 LENGTH: 1000
 TYPE: DNA
 ORGANISM: Homo Sapiens
 US-11-266-718A-481662

Query Match 3.8%; Score 18; DB 8; Length 1000;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 327 GTATGATTTTCTCTCT 344
 Db 131 GTAATGATTTCTCT 114

RESULT 15
 US-11-266-748A-93124
 ; Sequence 93124, Application US/11266748A
 ; Publication No. US20060134663A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Harkin, Paul
 ; APPLICANT: Johnston, Patrick
 ; APPLICANT: Mulligan, Karl
 ; TITLE OF INVENTION: Transcriptome Microarray Technology and
 ; TITLE OF INVENTION: Methods of Using the Same
 ; FILE REFERENCE: 55115_1102 (319189)
 ; CURRENT APPLICATION NUMBER: US/11/266,748A
 ; CURRENT FILING DATE: 2005-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105479.2
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105482.6
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105483.4
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105507.0
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105485.9
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR APPLICATION NUMBER: EP 04105484.2
 ; PRIOR FILING DATE: 2004-11-03
 ; PRIOR FILING DATE: 2005-03-14
 ; PRIOR FILING DATE: 2005-07-18
 ; NUMBER OF SEQ ID NOS: 483996
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 93124
 ; LENGTH: 1037
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 US-11-266-748A-93124

Result No.	Score	Query Match	Length	DB ID	Description	SUMMARIES				
1	18	3.8	1017	3 US-09-328-352-597	Sequence 597, APP	-	-	-	-	-
2	18	3.8	1356	3 US-09-314-001C-617	Sequence 617, APP	-	-	-	-	-
3	18	3.8	1356	3 US-09-710-279-3907	Sequence 2907, APP	-	-	-	-	-
C 4	18	3.8	3069	3 US-09-710-279-4352	Sequence 4352, APP	-	-	-	-	-
5	18	3.8	3206	3 US-09-710-279-4382	Sequence 4382, APP	-	-	-	-	-
C 6	18	3.8	4249	3 US-09-710-279-4133	Sequence 4133, APP	-	-	-	-	-
7	18	3.8	34047	3 US-09-94-016-43503	Sequence 13503, APP	-	-	-	-	-
8	18	3.8	67581	3 US-09-94-016-14768	Sequence 14768, APP	-	-	-	-	-
9	18	3.8	67643	3 US-09-94-016-14760	Sequence 14760, APP	-	-	-	-	-
C 10	18	3.8	117838	3 US-09-94-016-17595	Sequence 17595, APP	-	-	-	-	-
C 11	18	3.8	155617	3 US-09-94-016-16191	Sequence 16191, APP	-	-	-	-	-
12	18	3.8	193303	3 US-09-94-016-855A-37	Sequence 37, APP	-	-	-	-	-
C 13	18	3.8	193303	3 US-09-94-016-43503	Sequence 44, APP	-	-	-	-	-
14	18	3.8	202111	3 US-09-94-016-13877	Sequence 13877, APP	-	-	-	-	-
15	17	3.6	38	3 US-09-371-772B-11741	Sequence 11741, APP	-	-	-	-	-
16	17	3.6	38	5 US-10-13-674B-14018	Sequence 14018, APP	-	-	-	-	-
17	17	3.6	198	3 US-09-248-796A-13245	Sequence 13245, APP	-	-	-	-	-
18	17	3.6	338	3 US-09-513-999C-33496	Sequence 33496, APP	-	-	-	-	-
19	17	3.6	601	3 US-09-94-016-42562	Sequence 42562, APP	-	-	-	-	-
20	17	3.6	601	3 US-09-94-016-12563	Sequence 42663, APP	-	-	-	-	-
21	17	3.6	601	3 US-09-94-016-42564	Sequence 42664, APP	-	-	-	-	-
C 22	17	3.6	601	3 US-09-94-016-140295	Sequence 140295, APP	-	-	-	-	-
C 23	17	3.6	601	3 US-09-94-016-140296	Sequence 140296, APP	-	-	-	-	-

Organism: *Staphylococcus epidermidis*

Query Match 3.8%; Score 18; DB 3; Length 1356;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 GATGATTGCAGGAGATT 468
 Db 702 GATGATTGCAGGAGATT 719

RESULT 3
 US-09-710-279-2907
 sequence 2907, Application US/09710279
 Patent No. 6703492

GENERAL INFORMATION:
 APPLICANT: KIMMELLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 FILE REFERENCE: PU3480US

CURRENT APPLICATION NUMBER: US/09/710,279
 CURRENT FILING DATE: 2000-11-09
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 SOFTWARE: PatentIn Ver. 2.1

TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic

OTHER INFORMATION: Description of Artificial Sequence: synthetic
 SEQ ID NO 2907
 LENGTH: 1356
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic
 OTHER INFORMATION: Description of Artificial Sequence: synthetic
 US-09-710-279-2907

Query Match 3.8%; Score 18; DB 3; Length 1356;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 GATGATTGCAGGAGATT 468
 Db 702 GATGATTGCAGGAGATT 719

RESULT 4
 US-09-710-279-4352/C
 Sequence 4352, Application US/09710279
 Patent No. 6703492

GENERAL INFORMATION:
 APPLICANT: KIMMELLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 FILE REFERENCE: PU3480US

CURRENT APPLICATION NUMBER: US/09/710,279
 CURRENT FILING DATE: 2000-11-09
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 SOFTWARE: PatentIn Ver. 2.1

TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic
 OTHER INFORMATION: Description of Artificial Sequence: synthetic
 OTHER INFORMATION: nucleic acid sequence
 US-09-710-279-4352

Query Match 3.8%; Score 18; DB 3; Length 3069;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 GATGATTGCAGGAGATT 468

RESULT 5
 US-09-710-279-4382
 Sequence 4382, Application US/09710279
 Patent No. 6703492

GENERAL INFORMATION:
 APPLICANT: KIMMELLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 FILE REFERENCE: PU3480US

CURRENT APPLICATION NUMBER: US/09/710,279
 CURRENT FILING DATE: 2000-11-09
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 SOFTWARE: PatentIn Ver. 2.1

TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic
 OTHER INFORMATION: nucleic acid sequence
 US-09-710-279-4382

Query Match 3.8%; Score 18; DB 3; Length 4249;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 GATGATTGCAGGAGATT 468
 Db 4145 GATGATTGCAGGAGATT 4128

RESULT 6
 US-09-710-279-4133/C
 Sequence 4133, Application US/09710279
 Patent No. 6703492

GENERAL INFORMATION:
 APPLICANT: KIMMELLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 FILE REFERENCE: PU3480US

CURRENT APPLICATION NUMBER: US/09/710,279
 CURRENT FILING DATE: 2000-11-09
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 SOFTWARE: PatentIn Ver. 2.1

TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic
 OTHER INFORMATION: nucleic acid sequence
 US-09-710-279-4133

Query Match 3.8%; Score 18; DB 3; Length 4249;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 GATGATTGCAGGAGATT 468
 Db 4145 GATGATTGCAGGAGATT 4128

RESULT 7
 US-09-949-016-13503
 Sequence 13503, Application US/09949016
 Patent No. 6812339

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/233,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 13503
 LENGTH: 34047
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)...(34047)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-13503

Query Match Score 18; DB 3; Length 34047;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 20376 AATGATGTTCTCTCA 346
 Qy 329 AATGATGTTCTCTCA 20393

RESULT 8

US-09-949-016-14768

Sequence 14768, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 14768

; LENGTH: 67581

; TYPE: DNA

; ORGANISM: Human

; FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)...(67581); OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-14768

Query Match Score 18; DB 3; Length 67581;

Best Local Similarity 100.0%; Pred. No. 22;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 321 GAATTCGTAATGATGTT 338

Db 10604 GAATTCGTAATGATGTT 10621

RESULT 9

US-09-949-016-14760

; Sequence 14760, Application US/09949016

Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 207012
 ; LENGTH: 67643
 ; TYPE: DNA
 ; ORGANISM: Human
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(67643)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-14760

Query Match Score 18; DB 3; Length 67643;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 321 GAATTCGTAATGATGTT 338
 Db 10592 GAATTCGTAATGATGTT 10609

RESULT 10

US-09-949-016-17595/c
 ; Sequence 17595, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 17595
 ; LENGTH: 117838
 ; TYPE: DNA
 ; ORGANISM: Human
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(117838)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-17595

Query Match Score 18; DB 3; Length 117838;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 405 AGTCTTCACAGCAA 422
 Db 18984 AGTCTTCACAGCAA 18967

RESULT 11
US-09-949-016-16191/c
Sequence 16191, Application US/09494016
Patent No. 6812319
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C101307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO LENGTH: 16191
TYPE: DNA
ORGANISM: Human
US-09-949-016-16191

Query Match 3 .8%; Score 18; DB 3; Length 155617;
Best Local Similarity 100.0%; Pred. No. 22; Mismatches 0; Indels 0; Gaps 0;

Qy 183 AGGAGTTTATATAATT 200
Db 108176 AGGAGTTTATATAATT 108159

RESULT 12
US-09-497-855A-37
Sequence 37, Application US/09497855A
Patent No. 6605432
GENERAL INFORMATION:
APPLICANT: Huang, Tim
TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION
FILE REFERENCE: UMO1523
CURRENT APPLICATION NUMBER: US/09/497,855A
CURRENT FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: 60/120,592
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: 60/118,760
PRIOR FILING DATE: 1999-02-05
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.0
SEQ ID NO LENGTH: 37
TYPE: DNA
ORGANISM: Homo sapiens
US-09-497-855A-37

Query Match 3 .8%; Score 18; DB 3; Length 193303;
Best Local Similarity 100.0%; Pred. No. 22; Mismatches 0; Indels 0; Gaps 0;

Qy 331 TGATGTTCTCTCTAAC 348
Db 161051 TGATGTTCTCTCTAAC 161068

RESULT 13
US-09-497-855A-44
Sequence 44, Application US/09497855A
Patent No. 6605432
GENERAL INFORMATION:
APPLICANT: Huang, Tim
TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION
FILE REFERENCE: UMO1523

CURRENT APPLICATION NUMBER: US/09/497,855A
CURRENT FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: 60/120,592
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: 60/118,760
PRIOR FILING DATE: 1999-02-05
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.0
SEQ ID NO 44 LENGTH: 193303
TYPE: DNA
ORGANISM: Homo sapiens
US-09-497-855A-44

Query Match 3 .8%; Score 18; DB 3; Length 193303;
Best Local Similarity 100.0%; Pred. No. 22; Mismatches 0; Indels 0; Gaps 0;

Qy 331 TGATGTTCTCTCTAAC 348
Db 161051 TGATGTTCTCTAAC 161068

RESULT 14
US-09-949-016-13877
Sequence 13877, Application US/09494016
Patent No. 6812319
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C101307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13877 LENGTH: 202111
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(202111)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13877

Query Match 3 .8%; Score 18; DB 3; Length 202111;
Best Local Similarity 100.0%; Pred. No. 22; Mismatches 0; Indels 0; Gaps 0;

Qy 185 GAGTGTTATATATTC 202
Db 74832 GACTGGTTATATTC 74849

RESULT 15
US-09-371-772B-11741
Sequence 11741, Application US/09371772B
Patent No. 6566127
GENERAL INFORMATION:
APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Parco, Pam
; APPLICANT: McWiggan, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Ebcbedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions R
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor

FILE REFERENCE: MBHB00_876-J (237/198)
CURRENT APPLICATION NUMBER: US/09/371,772B
CURRENT FILING DATE: 1999-08-10
PRIOR APPLICATION NUMBER: US 60/005,974
PRIOR FILING DATE: 1995-10-26
PRIOR APPLICATION NUMBER: US 08/584,040
PRIOR FILING DATE: 1996-01-08
NUMBER OF SEQ ID NOS: 14225
SOFTWARE: PatentIn version 3.0
SEQ ID NO 11741
LENGTH: 38
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid
NAME/KEY: misc_feature
LOCATION: (31)_(31)
OTHER INFORMATION: n stands for inosine
US-09-371-772B-11741

Query Match 3.6%; Score 17; DB 3; Length 38;
Best Local Similarity 88.2%; Pred. No. 73;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 253 CAGAAGGCTATGAGC 269
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Db 1 CAGAAGGCUCAUGACG 17

Search completed: November 3, 2006, 23:46:17
Job time : 126.65 secs

Page Block (Page)

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: November 3, 2006, 21:27:32 ; Search time 634.59 Seconds
(without alignments)

9061.940 Million cell updates/sec

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Perfect score: 468

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Gapop=60.0 , Gapext 60.0

Searched: 18892170 seqs, 6143817638 residues

Word size : 1

Total number of hits satisfying chosen parameters: 37781012

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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13: /EMC_Celerra_SIDS3/ptodata/2/pubpna/us11A_PUBCOMB.seq:*

14: /EMC_Celerra_SIDS3/ptodata/2/pubpna/us11B_PUBCOMB.seq:*

15: /EMC_Celerra_SIDS3/ptodata/2/pubpna/us11C_PUBCOMB.seq:*

16: /EMC_Celerra_SIDS3/ptodata/2/pubpna/us11D_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	300	64.1	412	9 US-10-425-821-10	Sequence 10, Appl
c 2	20	4.1	8370	9 US-10-417-375-27	Sequence 27, Appl
c 3	19	4.1	496	4 US-09-925-065A-426352	Sequence 426352,
c 4	19	4.1	496	5 US-09-925-065A-426352	Sequence 426352,
5	19	4.1	497	12 US-10-301-480-489880	Sequence 489880,
c 6	19	4.1	497	12 US-10-301-480-1103289	Sequence 1103289,
c 7	19	4.1	506	12 US-10-301-480-59270	Sequence 59270, A
c 8	19	4.1	506	12 US-10-301-480-59271	Sequence 59271, A
c 9	19	4.1	506	12 US-10-301-480-59272	Sequence 59272, A
c 10	19	4.1	506	12 US-10-301-480-672679	Sequence 672679,
c 11	19	4.1	506	12 US-10-301-480-672680	Sequence 672680,
c 12	19	4.1	520	6 US-10-027-632-208513	Sequence 672681,
c 13	19	4.1	520	6 US-10-027-632-208513	Sequence 208513,
c 14	19	4.1	520	6 US-10-027-632-208514	Sequence 208514,
c 15	19	4.1	520	7 US-10-027-632-208515	Sequence 208515,
c 16	19	4.1	520	7 US-10-027-632-208513	Sequence 208513,
c 17	19	4.1	520	7 US-10-027-632-208514	Sequence 208514,

ALIGNMENTS

RESULT 1

Sequence 10, Application US/10425821
; Sequence 10, Application US/10425821
; Publication No. US20040219530A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: HARREL, Joe E.
; APPLICANT: BEKAL, Srdija
; TITLE OF INVENTION: ARRAY AND USES THEREOF
; FILE REFERENCE: 86169-3
; CURRENT APPLICATION NUMBER: US/10/425, 821
; CURRENT FILING DATE: 2003-04-30
; NUMBER OF SEQ ID NOS: 176
; SEQ ID NO 10
; SOFTWARE: PatentIn version 3.2
; TYPE: DNA
; ORGANISM: Escherichia coli

US-10-425-821-10

Query Match 64.1%; Score 300; DB 9; Length 412;
Best Local Similarity 10.0.0%; Pred. No. 7.3e-156;
Matches 300; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 64.1%; Score 300; DB 9; Length 412;
Best Local Similarity 10.0.0%; Pred. No. 7.3e-156;
Matches 300; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 169 CATTAGTCGCCCAACAGGAGTTGTATATTCTCAGTGTGATGTTGCATTCAGTAAAG 228
1 CATTAGTCGCCCAACAGGAGTTGTATATTCTCAGTGTGATGTTGCATTCAGTAAAG 60

229 AGTAATCTTGCAATTGTTCAAACAGAACAGCTCATGGTGTATTGTTACCTCCCTCC 288
61 AGTAATCTTGCAATTGTTCAAACAGAACAGCTCATGGTGTATTGTTACCTCCCTCC 120

289 AACGTGTTATCACGACCGATCATGGATTAGAATGGTAATGATGTTTCCTCTCAAC 348
121 AACGTGTTATCACGACCGATCATGGATTAGAATGGTAATGATGTTTCCTCTCAAC 180

349 CCATGCAATTGGCAATCGGGCCTGGATTCAAGAACATTGTTGACTTCCTCTCAAC 408
181 CCATGCAATTGGCAATCGGGCCTGGATTCAAGAACATTGTTGACTTCCTCTCAAC 240

Qy 409 CTTCAACAGAAACGGATCCTATAAGACGGGCTTAACGTGATGATTGCCAGGAGATT 468
 Db 241 CTTCAACAGAAACGGATCCTATAAGACGGGCTTAACGTGATGATTGCCAGGAGATT 300

RESULT 2
 US-10-417-375-27/C
 Sequence 2, Application US/10417375

; Publication No. US20040219528A1

; GENERAL INFORMATION:

; APPLICANT: David W. Morris

; TITLE OF INVENTION: Novel Therapeutic Targets in Cancer

; FILE REFERENCE: 529452001600

; CURRENT APPLICATION NUMBER: US/10/417,375

; CURRENT FILING DATE: 2003-04-15

; NUMBER OF SEQ ID NOS: 176

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 27

; LENGTH: 83710

; TYPE: DNA

; ORGANISM: Mus musculus

; FEATURE: misc_feature

; NAME/KEY: misc_feature

; LOCATION: (1) ..(83710)

; OTHER INFORMATION: n = A,T,C or G

US-10-417-375-27

Query Match 4.3%; Score 20; DB 9; Length 83710;
 Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Gaps 0;

Matches 20; Conservative 0; Indels 0; Gaps 0;

Qy 118 ATTAGCACTCCCTGGTATC 137

Db 3171 ATTAGCACTCCCTGGTATC 3152

RESULT 3
 US-09-925-065A-426352
 Sequence 426352, Application US/09925065A

; Publication No. US20040181048A1

; GENERAL INFORMATION:

; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827..135

; CURRENT APPLICATION NUMBER: US/09/925,065A

; CURRENT FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24

; PRIOR APPLICATION NUMBER: US 60/252,147

; PRIOR FILING DATE: 2000-11-20

; PRIOR APPLICATION NUMBER: US 60/250,092

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: US 60/261,766

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/289,846

; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 426352

; LENGTH: 496

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-925-065A-426352

Query Match 4.1%; Score 19; DB 4; Length 496;
 Best Local Similarity 100.0%; Pred. No. 27; Mismatches 0; Indels 0; Gaps 0;

Qy 326 GTTATGATGTTTCCTCT 344

Db 158 GTTATGATGTTTCCTCT 176

RESULT 6

RESULT 4
 US-09-925-065A-426352
 Sequence 426352, Application US/09925065A

; Publication No. US20050228172A9

; GENERAL INFORMATION:

; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827..135

; CURRENT APPLICATION NUMBER: US/09/925,065A

; CURRENT FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: US 60/243,096

; PRIOR FILING DATE: 2000-10-24

; PRIOR APPLICATION NUMBER: US 60/252,147

; PRIOR FILING DATE: 2000-11-20

; PRIOR APPLICATION NUMBER: US 60/250,092

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: US 60/261,766

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/289,846

; PRIOR FILING DATE: 2001-05-09

; NUMBER OF SEQ ID NOS: 957086

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 426352

; LENGTH: 496

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-925-065A-426352

Query Match 4.1%; Score 19; DB 4; Length 496;
 Best Local Similarity 100.0%; Pred. No. 27; Mismatches 0; Indels 0; Gaps 0;

Qy 326 GTTATGATGTTTCCTCT 344

Db 158 GTTATGATGTTTCCTCT 176

RESULT 5
 US-10-301-480-489880

; Sequence 489880, Application US/10301480

; Publication No. US20060057564A1

; GENERAL INFORMATION:

; APPLICANT: Wang, David G.

; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms in the Human Genome

; FILE REFERENCE: 108827..137

; CURRENT APPLICATION NUMBER: US/10/301,480

; CURRENT FILING DATE: 2002-11-21

; PRIOR APPLICATION NUMBER: US 10/215,598

; PRIOR FILING DATE: 2002-08-09

; PRIOR APPLICATION NUMBER: US 60/311,695

; PRIOR FILING DATE: 2001-08-10

; NUMBER OF SEQ ID NOS: 1226818

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 489880

; LENGTH: 497

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-301-480-489880

Query Match 4.1%; Score 19; DB 5; Length 496;
 Best Local Similarity 100.0%; Pred. No. 27; Mismatches 0; Indels 0; Gaps 0;

Qy 326 GTTATGATGTTTCCTCT 344

Db 158 GTTATGATGTTTCCTCT 176

US-10-301-480-1103289
; Sequence 1103289, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 1103289
; LENGTH: 497
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-1103289

Query Match 4.1%; Score 19; DB 12; Length 497;
 Best Local Similarity 100.0%; Pred. No. 27;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 326 GTGATGATGTTCTCT 344
 Db 158 GTGATGATGTTCTCT 176

RESULT 7
US-10-301-480-59270/c
; Sequence 59270, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 59270
; LENGTH: 506
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-59270

Query Match 4.1%; Score 19; DB 12; Length 506;
 Best Local Similarity 100.0%; Pred. No. 27;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 62 CTGATGGTTCAAGGGCAG 80
 Db 241 CTGATGGTTCAAGGGCAG 223

RESULT 8
US-10-301-480-59271/c
; Sequence 59271, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 672679
; LENGTH: 506


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; SEQ ID NO: 208514
; LENGTH: 520
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208514

Query Match      4.1%; Score 19; DB 6; Length 520;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   62 CTGATGGTTCAGGAGGCAG 80
Db   240 CTGATGGTTCAGGAGGCAG 222

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```

RESULT 15
US-10-027-632-208515/C
; Sequence 208515, Application US/10027632
; Publication No. US2002019871A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027.632
; PRIOR APPLICATION NUMBER: US 60/218,006
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ For Windows Version 4.0
; SEQ ID NO: 208515
; LENGTH: 520
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208515

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Query Match      4.1%; Score 19; DB 6; Length 520;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   62 CTGATGGTTCAGGAGGCAG 80
Db   240 CTGATGGTTCAGGAGGCAG 222

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100% Biodegradable

Copyright	GenCore version 5.1.9 (c) 1993 - 2006 Biocceleration Ltd.	
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ALIGNMENTS

RESULT 1

CONTENTS

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3	20	4.3	83102	13	ABD32667		Abd32667 Mouse can
4	19	4.1	32189	5	AAS30115		Aas30115 Human lun
5	19	4.1	32189	10	ADB33452		Adb33452 Human nov
6	19	4.1	32221	5	AAS30113		Aas30113 Human lun
7	19	4.1	32221	10	ADB33450		Adb33450 Human nov
8	9	3.8	278	6	ABN77046		Abn77046 Human ORF
9	18	3.8	309	10	ADL24711		Adl24711 Intestina
10	18	3.8	459	13	ACF85026		Acf85026 Human SIR
11	18	3.8	465	5	ABV46132		Abv46132 Human pro
12	18	3.8	565	3	AAC35341		Aac35341 Arabidops
13	18	3.8	565	15	AEP29701		Aep29701 Lead-Cere
14	18	3.8	575	4	AAH12181		Aah12181 Human cDN
15	18	3.8	675	3	AAA70256		Aaa70256 Human plasm
16	18	3.8	758	4	AAH04264		Aah04264 Human cDN
17	18	3.8	826	10	ABIL14609		Abil14609 Drosophila
18	18	3.8	1017	9	ADA29110		Ada29110 DNA endonuc

New array of nucleic acid probes useful for identifying or characterizing a pathotype of a microorganism, for detecting the presence of a microorganism (e.g. *Escherichia coli*) or for assessing infections and diseases in a subject.

卷之三

This invention describes a novel array and methods useful for identifying and/or characterizing a pathotype of a microorganism, for detecting the presence of a microorganism (e.g. *E. coli*) in a sample, or for assessing infections and diseases in a subject. The method comprises a substrate and nucleic acid probes, each of the probes being bound to the substrate at a discrete location. The probes comprise a first probe for a first pathotype of a species of a microorganism and a second probe for a second pathotype of the species, where the first and second pathotypes are not identical. The invention can be used to make a commercial package comprising the array together with instructions for: (a) detecting the presence of a microorganism in a sample; (b) determining the pathotype of a microorganism in a sample; (c) diagnosing an infection by a microorganism in a subject; (d) diagnosing a condition related to infection by a microorganism in a subject; or (e) any combination of (a)-(d). The probe is for a virulence gene or its fragment or a substantially identical sequence, where the virulence gene is associated with pathogenicity of the microorganism. The microorganism is a bacterium of the family Enterobacteriaceae, particularly *Escherichia coli*. The first and second pathotypes each independently comprise a pathotype selected from: (a) enterotoxigenic *E. coli* (ETEC); (b) enteropathogenic *E. coli* (EPEC); (c) enterohemorrhagic *E. coli* (EHEC); (d) enterosaggregative *E. coli* (EAEC); (e) enteroinvasive *E. coli* (ETEC); (f) uropathogenic strains (*UPEC*); (g) *E. coli* strains involved in neonatal meningitis (MNIEC); (h) *E. coli* strains involved in septicemia (SEEC); (i) cell-detaching *E. coli* (CDCB); and (j) diffusely adherent *E. coli* (DAEC). The virulence genes encoded a polypeptide of a class of proteins selected from toxins,

THE JOURNAL OF CLIMATE

SQ Sequence 412 BP; 112 A; 85 C; 89 G; 126 T; 0 U; 3 Other;

Length 412;

Query matcm Beat Local Similarity 100.0% Pred. NO: 2.2e-147;

Matches 300; Conservative 0; Mismatches 0; Indels 0

1 - 2 CCGTCTTCAGTTGATGCACTTGCTAACAG 22

169 CAA T A G T C C C C A C G G A G 1 9 1

1 CAATAGTGGCCACAGGAGTTATATTCTACCGTGTATTCGCTAACAG 6

2000 JOURNAL OF CLIMATE VOL. 13

Qy	289	AACGTGATCAGCAACGATCATGGAACTTAAATAGTGTTGATTGATGTTTCAC	180
Db	121	AACTGTGATCAGCAACGATCATGGCAATTGATGTTTCAC	408
Qy	349	CCATCGCATGGGATCGGGGGGTTAGGGAACTTAAATAGTGTTGAGTT	408
Db	181	CCATGATTGGGATCGGGGGTTAGGGAACTTAAATAGTGTTGAGTT	468
Qy	409	CTTCACAGACAAACGATCCTATAGACAGCGGTAACGGATATTGACAGGAGATT	468
Db	241	CTTCACAGACAAACGATCCTATAGACAGCGGCTAACGGATATTGACAGGAGATT	300
RESULT 2			
ID	AAF85771	Standard; DNA; 822 BP.	
XX	XX		
AC	AAF85771;		
XX	XX		
DT	10-DEC-2001	(first entry)	
DE	XX	E coli cytolethal distending toxin CdtB coding sequence.	
XX	XX		
Cytolytic	XX	cystolytic	
Toxin	XX	toxin	
CdtA	XX	CdtA	
CdtB	XX	CdtB	
Actin	XX	actin	
Cytoskeleton	XX	cytoskeleton	
DNAse	XX	DNAse	
Mitotic	XX	mitotic	
Block	XX	block	
Proliferative	XX	proliferative	
Cell	XX	cell	
Disorder	XX	disorder	
Cancer	XX	cancer	
Psoriasis	XX	psoriasis	
Infection	XX	infection	
Ds	XX	ds	
Escherichia	OS	Escherichia	
coli	XX	coli	
Key	XX	Location/Qualifiers	
PH	PH	1. .822	
FT	FT	/*tag= a	
FT	FT	/product= "CdtB"	
XX	XX		
PN	WO200134205-A2.		
XX	XX		
PD	17-MAY-2001.		
XX	XX		
PP	13-NOV-2000;	2000WO-GB004329.	
XX	XX		
PR	12-NOV-1999;	99GB-00026875.	
XX	XX		
PA	(MFCR-) MICROBIOLOGICAL RES AUTHORITY.		
XX	XX		
PI	Purdy D,	Charlton S,	Henderson I;
XX	XX		
WPI	2001-328841/34.		
DR	P-PSDB; AAB6071.		
XX	XX		
PT	Agent for treating proliferative disorders and intracellular infection		
PT	comprises a targeting moiety and a component.		
XX	XX		
PS	Claim 19; Page 37; 38pp; English.		
XX	XX		
CC	The present invention provides an agent comprising a targeting moiety and an agent capable of inhibiting cell division in a target cell of interest. The second component may be the cytolytic distending toxin CdtB, which is encoded by the present sequence. This agent can be used in the treatment of cell proliferation disorders, including cancer and psoriasis, to inhibit mitosis, or to treat infection by an intracellular pathogen.		
CC	Sequence 822 BP; 229 A; 157 C; 188 G; 248 T; 0 U; 0 Other;		
SQ	Sequence 822 BP; 229 A; 157 C; 188 G; 248 T; 0 U; 0 Other;		
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Best Local Similarity	100.0%	Length 822;	
Matches 44;	Conservative 0;	Pred. No. 1.8e-12;	
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		Gaps 0;	
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RESULT 3	SQ Sequence 83102 BP; 23417 A; 17147 C; 17240 G; 24360 T; 0 U; 938 Other;
ID ABD32667/C	Query Match 4.3%; Score 20;
ID ABD32667 standard; DNA; 83102 BP.	Best Local Similarity 100.0%;
AC ABD32667;	Pred. No. 7.7%;
XX	Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	QY 118 ATTAGGCCTCCCTGGTATC 137
DT 18-NOV-2004 (first entry)	Db 3009 ATTAGGCCTCCCTGGTATC 2990
XX	
DB Mouse cancer-associated protein; gene; cytostatic; cancer; leukaemia; lymphoma; CAP.	
XX	
XX	RESULT 4
OS Mus musculus.	AAS30115 standard; DNA; 32189 BP.
XX	
PN WO2004074320-A2.	XX
XX	AC AAS30115;
PD 02-SEP-2004.	XX
XX	DT 21-NOV-2001 (first entry)
PF 17-PFB-2004; 2004WO-US004730.	XX
XX	DB Human lung antigen genomic DNA #185.
PR 14-PFB-2003; 2003US-00367094.	XX
PR 14-MAR-2003; 2003US-0038888.	KW Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog; chicken; sheep; immunosuppressive; antiarthritic; vasotrophic; antirheumatic; anticroliferative; cytostatic; cardiant; neuroprotective;
PR 15-APR-2003; 2003US-00417375.	KW cerebroprotective; nootropic; antibacterial; virucide; Cancer; ophthalmological; vulnerary; Gene therapy; autoimmune disease; neoplasm; hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
PR 13-JUN-2003; 2003US-00461862.	KW cerebrovascular disorder; nervous system disorder; bacterial infection; fungal infection; viral infection; ocular disorder; endocrine disorder;
PR 15-SEP-2003; 2003US-00653143.	KW gastrointestinal disorder; renal disorder; respiratory disorder; wound healing; skin aging; organ transplant; food preservative; tissue regeneration; anti-infertility; food additive.
PR 15-DEC-2003; 2003US-00737318.	
XX	
PA (SAGR) SAGRES DISCOVERY INC.	XX
XX	OS Homo sapiens.
P1 Morris DW, Morris MS;	XX
XX	PN WO200155303-A2.
P2 Morris DW, Malandro MS;	XX
XX	PD 02-AUG-2001.
DR WPI; 2004-652914/63.	XX
XX	XX
PT New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.	PR 17-JAN-2001; 2001WO-US001301.
PT	PR 31-JAN-2000; 2000US-0179065P.
PT	PR 04-FEB-2000; 2000US-0180628P.
XX	PR 24-FEB-2000; 2000US-0184664P.
PS disclosure; seqid 212; 310pp; English.	PR 02-MAR-2000; 2000US-0186350P.
XX	PR 16-MAR-2000; 2000US-0189874P.
CC	PR 17-MAR-2000; 2000US-0190076P.
CC	PR 18-APR-2000; 2000US-0198123P.
CC	PR 19-MAY-2000; 2000US-0205515P.
CC	PR 07-JUN-2000; 2000US-0209467P.
CC	PR 28-JUN-2000; 2000US-0214886P.
CC	PR 30-JUN-2000; 2000US-0215133P.
CC	PR 07-JUL-2000; 2000US-0216647P.
CC	PR 07-JUL-2000; 2000US-0216880P.
CC	PR 11-JUL-2000; 2000US-0217148P.
CC	PR 11-JUL-2000; 2000US-0217489P.
CC	PR 14-JUL-2000; 2000US-0218290P.
CC	PR 26-JUL-2000; 2000US-0220933P.
CC	PR 26-JUL-2000; 2000US-022526P.
CC	PR 14-AUG-2000; 2000US-0225267P.
CC	PR 14-AUG-2000; 2000US-0225268P.
CC	PR 14-AUG-2000; 2000US-0224519P.
CC	PR 14-AUG-2000; 2000US-0225210P.
CC	PR 14-AUG-2000; 2000US-0225447P.
CC	PR 14-AUG-2000; 2000US-0225757P.
CC	PR 14-AUG-2000; 2000US-0225758P.
CC	PR 14-AUG-2000; 2000US-0225759P.
CC	PR 18-AUG-2000; 2000US-0226229P.
CC	PR 22-AUG-2000; 2000US-0226681P.

Db	23959	CTGATGGTTAGGAGCG 23977
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XX	ADB33452;	
AC	ADB33452;	
XX	04-DEC-2003 (first entry)	
XX	Human novel lung related polypeptide DNA SEQ ID NO 379.	
XX	Gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia; adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis; immunodeficiency; X-linked agammaglobulinaemia; X-linked infantile agammaglobulinaemia; inflammatory disorder; adrenalitis; alveolitis; immune complex disease; serum sickness; polyarteritis nodosa; bleeding disorder; thrombocytopenia; Von Willebrand's disease; acquired platelet dysfunction; kidney failure; multiple myeloma; macrophage related disorder; Gaucher's disease; Neimann-Pick disease; tumour; colon cancer; pancreatic cancer; renal disorder; nephritis; bone disorder; Albers-Schonberg disease; bowleg; muscle disorder; Becker's muscular dystrophy; Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion; traumatic lesion; endocrine disorder; Cushing's syndrome; corticosteroid deficiency; gastrointestinal disorder; dysphagia; gastric reflux; human; ds.	
XX	OS	
XX	Homo sapiens.	
PN	US2003054368-A1.	
XX	20-MAR-2003.	
XX	22-FEB-2002; 2002US-00079854.	
XX	31-JAN-2000; 2000US-0179065P.	
PR	24-FEB-2000; 2000US-0180628P.	
PR	02-MAR-2000; 2000US-0184664P.	
PR	17-MAR-2000; 2000US-0185350P.	
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PR	11-JUL-2000; 2000US-0205515P.	
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PR	07-JUL-2000; 2000US-0216880P.	
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PR	14-SEP-2000; 2000US-0232401P.	
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PR	21-SEP-2000; 2000US-0234233P.	
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PR	20-OCT-2000; 2000US-0241809P.	
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PR	17-NOV-2000;	2000US-0249212P.	XX		
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PR	05-JAN-2001;	2001US-0253678P.	XX		
PR	17-JAN-2001;	2001US-0076487B.	XX		
PA	(HUMA -)	HUMAN GENOME SCI INC.			
XX	Rosen CA,	Ruben SM,	Barash SC;		
XX	WPI:	2003-695900/66.			
XX	DR:				
PT	Novel isolated lung antigen polypeptides useful for treating, preventing, diagnosing acute myelogenous leukemias, adenocarcinoma, thrombocytopenia, PR				
PR	Von Willebrand's disease.				
PR	Disclosure; SEQ ID NO 379; 178PP; English.				
PS					
XX	The invention relates to an isolated lung antigen polypeptide sequence or encoded sequence in a cDNA clone. The polypeptide and its polynucleotide are useful for treating, preventing, diagnosing and/or prognosing diseases and/or disorders such as pathological cell proliferative neoplasias e.g. acute myelogenous leukaemias, adenocarcinoma; respiratory disorders such as chronic rhinitis, sinusitis, immunodeficiencies such as X-linked agammaglobulinaemia, X-linked infantile agammaglobulinaemia; inflammatory disorders such as adrenalitis, alveolitis, immune complex diseases such as serum sickness, polyarteritis nodosa, bleeding disorders such as thrombocytopeni, Von Willebrand's disease; acquired platelet dysfunction such as kidney failure, multiple myeloma; disorders associated with macrophage numbers and/or macrophage function such as Gaucher's disease, Niemann-Pick disease; tumours such as colon cancer, pancreatic cancer; renal disorders such as kidney failure, nephritis; bone disorders such as Albers-Schonberg disease, bowleg; muscle dystrophy; nervous disorders such as Becker's muscular dystrophy, Duchenne's muscular dystrophy; traumatic lesions, corticosteroid				
CC	, endocrine disorders such as Cushing's syndrome, corticosteroid				
CC	Query Match Similarity 4.1%; Score 19, DB 10; Length 32189;				
CC	Best Local Similarity 100.0%; Pred. No. 26;				
Matches	19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
Qy	62 CTGATGGTCAAGGGCAG 80				
Db	23959 CTGATGGTCAAGGGCAG 23977				
RESULT 6					
ID	AAS30113 standard; DNA; 32221 BP.				

gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia;
 adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis;
 immunodeficiency; x-linked gammaglobulinaemia;
 X-linked infantile agammaglobulinaemia; inflammatory disorder;
 adrenitis; immune complex disease; serum sickness;
 polyarteritis nodosa; bleeding disorder; thrombocytopenia;
 polyarteritis nodosa; bleeding disorder; thrombocytopenia; kidney failure;
 Von Willebrand's disease; acquired platelet dysfunction; kidney disease;
 multiple myeloma; macrophage related disorder; Gaucher's disease;
 Niemann-Pick disease; tumour; colon cancer; pancreatic cancer;
 renal disorder; nephritis; bone disorder; Albers-Schonberg disease;
 KW
 KW bowleg; muscle disorder; Becker's muscular dystrophy;
 Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion;
 traumatic lesion; endocrine disorder; Cushing's syndrome;
 corticotocerol deficiency; gastrointestinal disorder; dysphagia;
 KW
 KW gastric reflux; human; ds.
 XX
 XX OS US20030324368-A1.
 XX PD 20-MAR-2003.
 XX PP 22-FEB-2002; 2002US-00079854.
 XX PR 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 02-MAR-2000; 2000US-0184664P.
 PR 16-MAR-2000; 2000US-0186350P.
 PR 17-MAR-2000; 2000US-0188874P.
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 PR 19-MAY-2000; 2000US-0198123P.
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PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DBC-2000; 2000US-0250391P.
 PR 05-DBC-2000; 2000US-0251030P.
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 PR 08-DEC-2000; 2000US-0251999P.
 PR 11-DEC-2000; 2000US-0251990P.
 PR 05-JAN-2001; 2000US-0254097P.
 PR 17-JAN-2001; 2001US-0259678P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Rosen CA, Ruben SM, Barash SC;
 XX Disclosure; SEQ ID NO 377; 178pp; English.
 XX Novel isolated lung antigen polypeptides useful for treating, preventing,
 PR diagnosing acute myelogenous leukemia, adenocarcinoma, thrombocytopenia,
 PR Von Willebrand's disease.
 PS
 DR
 XX
 PR Novel isolated lung antigen polypeptides useful for treating, preventing,
 PR diagnosing acute myelogenous leukemia, adenocarcinoma, thrombocytopenia,
 PR Von Willebrand's disease.
 XX
 CC The invention relates to an isolated lung antigen polypeptide sequence or
 CC encoded sequence in a cDNA clone. The polypeptide and its polynucleotide
 CC are useful for treating, preventing, diagnosing and/or prognosis
 CC diseases and/or disorders such as haemophilia, cell proliferative
 CC neoplasias e.g. acute myelogenous leukaemia, adenocarcinoma; respiratory
 CC disorders such as chronic rhinitis, sinusitis, immunodeficiencies such as
 CC X-linked agammaglobulinaemia, X-linked infantile agammaglobulinaemia;
 CC inflammatory disorders such as adrenalitis, alveolitis; immune complex
 CC diseases such as serum sickness, Polyarteritis nodosa; bleeding disorders
 CC such as thrombocytopenia, Von Willebrand's disease; acquired platelet
 CC dysfunction such as kidney failure, multiple myeloma; disorders
 CC associated with macrophage numbers and/or macrophage function such as
 CC Gaucher's disease, Niemann-Pick disease; tumours such as colon cancer,
 CC pancreatic cancer, renal disorders such as kidney failure, nephritis;
 CC bone disorders such as Albers-Schonberg disease, bowlegs; muscle
 CC disorders such as Becker's muscular dystrophy, Duchenne's muscular
 CC dystrophy; nervous disorders such as Cushing's syndrome, corticosteroid
 CC ; endocrine disorders such as ischaemic lesions, traumatic lesions.

CC Query Match 4.1%; Score 19; DB 10; Length 32221;
 CC Best Local Similarity 100.0%; Pred. No. 26;
 CC Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 62 CTGATGGTTAGGGGAG 80
 Db 23989 CTGATGGTTAGGGGAG 24007

RESULT 8
 ABN7046/C
 ID ABN7046 standard; cDNA; 278 BP.
 XX
 AC ABN7046;
 XX 08-JUL-2002 (first entry)
 DT Human ORF1993 cDNA, SEQ ID NO:3985.
 XX
 KW Human; ORF; open reading frame; ORFX; drug screening; diagnosis;
 KW disease monitoring; cytokeratin; cell proliferation; cell differentiation;
 KW immune modulation; haemopoiesis regulation; tissue growth;
 KW angiogenesis; actin; vimentin; inhibin; chemotactic; haemostatic;
 KW thrombolytic; tumour inhibition; bodily characteristic; fertility;
 KW behaviour; cancer; proliferative disorder; neurological disorder;
 KW cardiovascular disease; immune system disorder; organ transplantation;

XX
 KW tissue growth disorder; tissue regeneration disorder; diabetes mellitus;
 KW hypothyroidism; cholesterol ester storage disease; infection; vulnerability;
 KW vasotropics; anti-psoriatic; antidiabetic; cyrostatic; neuroprotective;
 KW antiatherosclerotic; anticoagulant; thrombolytic;
 KW dermatological; hypotensive; antithyroid; antiinflammatory; immunomodulator;
 KW analgesic; fungicide; fungicide; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200190366-A2.
 XX
 PR 24-MAY-2000; 2000US-0206630P.
 XX
 PD 29-NOV-2001.
 XX
 PF 24-MAY-2001; 20001WO-US017076.
 XX
 PR 24-MAY-2000; 2000US-0206630P.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PT Novel human polypeptides and polynucleotides useful for diagnosing,
 PR preventing and treating cardiovascular disease, neurodegenerative,
 PR hyperproliferative disorders and disorders related to organ
 PR transplantation.
 XX
 PS Claim 1; Page 1253; 2508pp; English.
 XX
 CC Sequences ABP31028-ABP35561 represent 4534 novel human proteins
 CC designated ORF (open reading frame) 1-4334, and sequences ABN70504-
 CC ABN79387 represent cDNAs encoding them. The invention also encompasses
 CC polypeptides at least 80% identical to the ORF1-ORF4534 (collectively referred to as ORFX) proteins, polynucleotides at least 85% identical to the ORFX nucleic acid sequences, vectors and host cells comprising ORFX polynucleotides, the recombinant production of ORFX proteins, antibodies specific for ORFX proteins, methods of detecting ORFX polynucleotides and polypeptides, methods of screening for modulators of ORFX expression or activity, and methods of screening individuals for a predisposition to an ORFX-associated disorder. The ORFX proteins of the invention have a wide range of biological activities, such as cytokine cell proliferation, cell differentiation, immune modulation, haemopoiesis regulation, tissue growth, angiogenesis, actinvin or inhibitvin activity, chemotactic/chemokinetic activity, haemostatic activity, thrombolytic activity, receptor/ligand, antinflammatory activity, tumour inhibition activity, and antiinfective activity, and may also be involved in the determination of bodily characteristics, fertility and behaviour. ORFX proteins, nucleic acids and antibodies may be used in the treatment of cancers, other proliferative disorders such as psoriasis and Alzheimer's disease, cardiovascular diseases, immune system disorders, disorders related to organ transplantation, disorders of tissue growth and regeneration, diseases such as diabetes mellitus, hypothyroidism, and cholesterol ester storage disease, and infectious diseases caused by viral, bacterial, fungal and other pathogens. ORFX nucleic acids may also be used as a source of primers and probes in the detection of ORFX genomic sequences or transcripts, in the identification and cloning of homologous sequences, in genetic diagnosis, and in forensic biology. The ORFX nucleic acids may additionally be used to produce transgenic animals which may be useful for studying the function and/or activity of ORFX protein, and in drug screening. The ORFX proteins may also be used as immunogens to generate specific antibodies, which are useful in the diagnosis, treatment and monitoring of ORFX-associated diseases

XX
 SQ Sequence 278 BP; 73 A; 74 C; 79 G; 52 T; 0 U; 0 Other;
 CC Query Match 3.8%; Score 18; DB 6; Length 278;
 CC Best Local Similarity 100.0%; Pred. No. 95;
 CC Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 83 GCAGTACCACTGGCTCTGGA 100

Db 126 ||||||| GCAGTACCGCTCTGCA 109
RESULT 9
 ADI24711 standard; DNA; 309 BP.
 XX ADI24711;
 XX DT 20-MAY-2004 (first entry)
 XX DE Intestinal epithelium/peyer's patch M cell-associated DNA sequence #72.
 XX OS Mus musculus.
 XX PN WO200280852-A2.
 XX PD 17-OCT-2002.
 XX PP 04-APR-2002; 2002WO-US010873.
 XX PR 04-APR-2001; 2001US-0281416P.
 XX PA (DIGIT-) DIGITAL GENE TECHNOLOGIES INC.
 XX PI Brayden DJ, Byrne D, O'mahony DJ, Evans CF, Mah SP, Io DD;
 XX DR 2003-075470/07.
 XX PT Novel isolated or purified polypeptide encoded by genes associated with intestinal epithelium or M cell development, differentiation or function, useful for treating autoimmune diseases and infectious diseases.
 XX PS Claim 1: SEQ ID NO 221: 152pp; English.
 XX The invention comprises DNA sequences which are associated with intestinal epithelium and peyer's patch M cells. The DNA sequences of the invention are useful for assessing, modifying, modulating or regulating intestinal epithelium or M cell development. The DNA sequences of the invention are also useful in the treatment of: inflammatory bowel disease, glutenenteropathy, infectious diseases, autoimmune diseases (e.g. haemolytic anaemia, rheumatoid arthritis, dermatitis, Grav's disease, multiple sclerosis, allergy, asthma and diabetic mellitus), disease or disorders of the immune system, hypersensitivity, anaphylaxis, and blood group incompatibility. The present nucleic acid represents an intestinal epithelium/peyer's patch M cell-associated DNA sequence of the invention. NOTE: The present sequence is not shown in the specification, but has been retrieved from the WIPO website.
 XX SQ Sequence 309 BP; 98 A; 62 C; 69 G; 80 T; 0 U; 0 Other;
 XX Query Match 3.8%; Score 18; DB 10; Length 309;
 XX Best Local Similarity 100.0%; Pred. No. 95;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 69 TTCAAGGGGCAAGGGCAG 86
 XX Db 43 TTCAAGGGGCAAGGGCAG 60
RESULT 10
 ACF85026 ABV4132/c
 ID ACF85026 standard; DNA; 459 BP.
 XX AC ABV4132;
 AC 16-SEP-2002 (first entry)

XX DT 02-JUN-2005 (first entry)
 XX DE Human SIRS/sepsis diagnostic marker DNA Fragment 3886.
 XX KW Systemic inflammatory response syndrome; SIRS; antibacterial; immunosuppressive; antiinflammatory; diagnosis; sepsis; ds.
 XX OS Homo sapiens.
 XX PN WO2004087949-A2.
 XX PD 14-OCT-2004.
 XX PF 31-MAR-2004; 2004WO-EP003419.
 XX PR 02-APR-2003; 2003DE-01015031.
 XX PR 08-AUG-2003; 2003DE-01036511.
 XX PR 02-SEP-2003; 2003DE-01040395.
 XX PA (SIRS-) SIRS LAB GMBH.
 XX PI Russwurm S, Reinhart K, Saluz H, Straube E, Zipfel PF, Deigner H;
 XX DR WPI; 2004-748070/73.
 XX PT In vitro detection of systemic inflammatory response syndrome and related conditions, for e.g. monitoring progression, comprises detecting abnormal expression of disease-related genes.
 XX PS Disclosure; Page: 75pp; German.
 XX CC The invention relates to a novel method for in vitro detection of systemic inflammatory response syndrome (SIRS). The method comprises detecting abnormal expression of disease-related genes, or their associated peptides. The method of the invention demonstrates antibacterial, immunosuppressive and antiinflammatory applications and may be used for early differential diagnosis, monitoring progression, assessing risk, assessing the likely response to treatment and for post mortem diagnosis of systemic inflammatory response syndrome, sepsis and sepsis-like conditions. The recombinant or synthetic nucleic acid, useful as calibrants in assays for the specified diseases, for evaluating activity or toxicity in screening for active agents and/or for preparation of agents for treatment or prevention of the specified diseases. The current sequence is that of a human SIRS/sepsis diagnostic marker DNA fragment of the invention. Note: The sequence data for this marker DNA fragment of the printed specification, but was obtained patient did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published/pct/sequences. Furthermore, a number of arbitrary SEQ ID NO.s are disclosed within the specification, however, these have not been taken into account during indexing due to inconsistencies in application and format
 XX SQ Sequence 459 BP; 145 A; 82 C; 87 G; 145 T; 0 U; 0 Other;
 XX Query Match 3.8%; Score 18; DB 13; Length 459;
 XX Best Local Similarity 100.0%; Pred. No. 94;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 327 GTAAATGATGTTTCTCT 344
 XX Db 244 GTAAATGATGTTTCTCT 261
RESULT 11
 ABV4132/c
 ID ABV4132 standard; cDNA; 465 BP.
 XX AC ABV4132;

DE	Human prostate expression marker cDNA	46123.
XX	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; gene; ss.	
KW	pharmacogenomic marker	
KW	XX	
KW	Home sapiens.	
XX		
PN	WO200160860-A2.	
XX		
PD	23-AUG-2001.	
XX		
PX	20-FEB-2001; 2001WO-US005171.	
XX		
PR	17-FEB-2000; 2000US-018319P.	
PR	16-MAR-2000; 2000US-0189862P.	
PR	25-MAY-2000; 2000US-0207454P.	
PR	09-JUN-2000; 2000US-0211314P.	
PR	18-JUL-2000; 2000US-0219007P.	
PR	13-DEC-2000; 2000US-0255281P.	
XX		
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.	
XX		
PI	Schlegel R, Endege WO, Monahan JB;	
XX		
DR	WPI; 2001-662795/76.	
XX		
PT	Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.	
PT		
PT	Claim 1; Page 9110-9111; 11750pp; English.	
PT		
CC	The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the specification or its complement. (I) is useful for: (a) assessing whether a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient; (d) assessing the efficacy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient; (i) is also useful as a pharmacodynamic or pharmacogenomic marker	
CC		
PS	Sequence 465 BP; 161 A; 79 C; 82 G; 143 T; 0 U; 0 Other;	
XX		
CC	Query Match 3.8%; Score 18; DB 5; Length 465;	
CC	Best Local Similarity 100.0%; Pred. No. 94;	
CC	Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
Qy	185 GAGTGTGTTATATATTTC 202	
Db	428 GAGTGTGTTATATATTTC 411	
XX		
RESULT 12	AAC5341/C	
ID	AAC5341 standard; DNA; 565 BP.	
AC	AAC5341;	
XX		
DT	17-OCT-2000 (First entry)	
XX		
DB	Arabidopsis thaliana DNA fragment SEQ ID NO: 9835.	
XX		
KW	Hybridisation assay; genetic mapping; gene expression control; protein identification; signal transduction pathway; metabolic pathway;	
KW	promoter; termination sequence; ss.	
XX		
OS	Arabidopsis thaliana.	
XX		
EP1033405-A2.		

PR	02-JUL-1999;	99US-0142055P.	22-SEP-1999;	99US-0155139P.
PR	06-JUL-1999;	99US-0142390P.	PR	23-SEP-1999;
PR	08-JUL-1999;	99US-0142803P.	PR	24-SEP-1999;
PR	09-JUL-1999;	99US-0142920P.	PR	28-SEP-1999;
PR	12-JUL-1999;	99US-0142977P.	PR	29-SEP-1999;
PR	14-JUL-1999;	99US-0143542P.	PR	04-OCT-1999;
PR	15-JUL-1999;	99US-0143624P.	PR	05-OCT-1999;
PR	16-JUL-1999;	99US-0144005P.	PR	06-OCT-1999;
PR	19-JUL-1999;	99US-0144085P.	PR	07-OCT-1999;
PR	19-JUL-1999;	99US-0144086P.	PR	08-OCT-1999;
PR	19-JUL-1999;	99US-0144325P.	PR	12-OCT-1999;
PR	19-JUL-1999;	99US-0144331P.	PR	13-OCT-1999;
PR	19-JUL-1999;	99US-0144332P.	PR	13-OCT-1999;
PR	19-JUL-1999;	99US-0144333P.	PR	13-OCT-1999;
PR	19-JUL-1999;	99US-0144334P.	PR	14-OCT-1999;
PR	19-JUL-1999;	99US-0144335P.	PR	14-OCT-1999;
PR	20-JUL-1999;	99US-0144352P.	PR	14-OCT-1999;
PR	20-JUL-1999;	99US-0144632P.	PR	14-OCT-1999;
PR	20-JUL-1999;	99US-0144884P.	PR	14-OCT-1999;
PR	21-JUL-1999;	99US-0144814P.	PR	18-OCT-1999;
PR	21-JUL-1999;	99US-0145086P.	PR	21-OCT-1999;
PR	21-JUL-1999;	99US-0145088P.	PR	21-OCT-1999;
PR	22-JUL-1999;	99US-0145085P.	PR	21-OCT-1999;
PR	22-JUL-1999;	99US-0145087P.	PR	21-OCT-1999;
PR	22-JUL-1999;	99US-0145192P.	PR	21-OCT-1999;
PR	23-JUL-1999;	99US-0145145P.	PR	22-OCT-1999;
PR	23-JUL-1999;	99US-0145145P.	PR	22-OCT-1999;
PR	23-JUL-1999;	99US-01452118P.	PR	22-OCT-1999;
PR	23-JUL-1999;	99US-0145224P.	PR	22-OCT-1999;
PR	26-JUL-1999;	99US-0145276P.	PR	25-OCT-1999;
PR	27-JUL-1999;	99US-0145133P.	PR	25-OCT-1999;
PR	27-JUL-1999;	99US-0145918P.	PR	25-OCT-1999;
PR	27-JUL-1999;	99US-0145119P.	PR	26-OCT-1999;
PR	28-JUL-1999;	99US-0145511P.	PR	26-OCT-1999;
PR	02-AUG-1999;	99US-014586P.	PR	26-OCT-1999;
PR	02-AUG-1999;	99US-0146388P.	PR	28-OCT-1999;
PR	02-AUG-1999;	99US-0145389P.	PR	28-OCT-1999;
PR	03-AUG-1999;	99US-0141038P.	PR	28-OCT-1999;
PR	04-AUG-1999;	99US-0147204P.	PR	29-OCT-1999;
PR	05-AUG-1999;	99US-0147302P.	PR	29-OCT-1999;
PR	05-AUG-1999;	99US-0147192P.	PR	29-OCT-1999;
PR	05-AUG-1999;	99US-0147260P.	PR	29-OCT-1999;
PR	06-AUG-1999;	99US-0147033P.	PR	29-OCT-1999;
PR	06-AUG-1999;	99US-0147416P.	PR	29-OCT-1999;
PR	09-AUG-1999;	99US-0147335P.	PR	29-OCT-1999;
PR	10-AUG-1999;	99US-0148171P.	PR	11-AUG-1999;
PR	11-AUG-1999;	99US-0148319P.	PR	12-AUG-1999;
PR	12-AUG-1999;	99US-0148319P.	PR	13-AUG-1999;
PR	13-AUG-1999;	99US-0148656P.	PR	13-AUG-1999;
PR	13-AUG-1999;	99US-0148644P.	PR	16-AUG-1999;
PR	16-AUG-1999;	99US-0149668P.	PR	23-AUG-1999;
PR	17-AUG-1999;	99US-0149175P.	PR	18-AUG-1999;
PR	18-AUG-1999;	99US-0149260P.	PR	20-AUG-1999;
PR	20-AUG-1999;	99US-0149722P.	PR	27-AUG-1999;
PR	20-AUG-1999;	99US-0149723P.	PR	27-AUG-1999;
PR	23-AUG-1999;	99US-0149939P.	PR	27-AUG-1999;
PR	23-AUG-1999;	99US-0149922P.	PR	27-AUG-1999;
PR	23-AUG-1999;	99US-0149930P.	PR	30-AUG-1999;
PR	31-AUG-1999;	99US-0151056P.	PR	01-SEP-1999;
PR	01-SEP-1999;	99US-0151930P.	PR	07-SEP-1999;
PR	07-SEP-1999;	99US-0152363P.	PR	10-SEP-1999;
PR	10-SEP-1999;	99US-0153070P.	PR	13-SEP-1999;
PR	15-SEP-1999;	99US-0153758P.	PR	15-SEP-1999;
PR	16-SEP-1999;	99US-015408P.	PR	20-SEP-1999;
PR	20-SEP-1999;	99US-0154779P.	PR	20-SEP-1999;

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 XX KW
 XX OS Homo sapiens
 XX PN EP1074617-A2.
 XX PD 07-FEB-2001.
 XX PP 28-JUL-2000; 2000BP-00116126.
 XX PR 29-JUL-1999; 99JP-00248036.
 XX PR 27-AUG-1999; 99JP-0030053.
 XX PR 11-JAN-2000; 2000JP-00118776.
 XX PR 02-MAY-2000; 2000JP-00118767.
 XX PR 09-JUN-2000; 2000JP-00241899.
 XX PA (HELI-) HELIX RES INST.
 XX PI Ota T, Isogai T, Hayashi K, Nishikawa T, Saito K, Yamamoto J;
 XX PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsubi T;
 XX DR WPI; 2001-318749/34.
 XX PR Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.
 XX PS SEQ ID NO 9016: 2537pp + Sequence Listing; English.
 XX CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises:
 CC (a) an oligo-dT primer and an oligonucleotide complementary to the CC complementary strand of a polynucleotide which comprises one of the 5602 CC nucleotide sequences defined in the specification, where the CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination CC of an oligonucleotide comprising a sequence complementary to the CC complementary strand of a polynucleotide which comprises a 5'-end CC sequence and an oligonucleotide comprising a sequence complementary to a CC polynucleotide which comprises at least 15 nucleotides and the combination of CC the 5'-end sequence/3'-end sequence is selected from those defined in the CC specification. The primers sets can be used in antisense therapy and in the CC gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the CC detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length CC cDNAs easily without any specialised methods. AAH03165 to AAH13628 and CC AAH18742 to AAH18742 represent human cDNA sequences; AAH92446 to AAH9593 CC represent human amino acid sequences; and AAH13629 to AAH13632 represent CC oligonucleotides, all of which are used in the exemplification of the CC present invention.
 XX SQ Sequence 575 BP; 184 A; 104 C; 124 G; 155 T; 0 U; 8 Other;
 XX Query Match 3.8%; Score 18; DB 15; Length 565;
 XX Best Local Similarity 100.0%; Pred. No. 94;
 XX Matches 18; Mismatches 0; Indels 0; Gaps 0;
 XX QY 397 TGTTTTGAGTTCTCAA 414
 XX DB 57 TGTTTTGAGTTCTCAA 40
 XX RESULT 14
 XX AAH12181/C
 XX ID AAH12181 standard; cDNA; 575 BP.
 XX AC AAH12181;
 XX DT 26-JUN-2001 (first entry)
 XX DB Human cDNA clone (3'-primer) SEQ ID NO:9016.
 XX SQ Sequence 575 BP; 184 A; 104 C; 124 G; 155 T; 0 U; 8 Other;
 XX Query Match 3.8%; Score 18; DB 4; Length 575;
 XX Best Local Similarity 100.0%; Pred. No. 94;
 XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX QY 331 TGATGTTTCCTCTCAAC 348
 XX DB 90 TGATGTTTCCTCTCAAC 73
 XX RESULT 15
 XX AAH12181/C
 XX ID AAH12181 standard; cDNA; 675 BP.
 XX AC AAH12181;
 XX DT 07-NOV-2000 (first entry)

DE Plasmodium falciparum chromosome 2 related DNA sequence SEQ ID NO:389.
 XX Plasmodium falciparum; chromosome 2; human malaria parasite; vaccine;
 KW antimalarial; malaria; protozoacide; infection; insecticide; ds.
 XX OS Plasmodium falciparum.
 XX PN WO20025728-A2.
 XX
 PD 11-MAY-2000.
 XX PF 05-NOV-1999; 99WO-US026796.
 XX PR 05-NOV-1998; 98US-0107131P.
 XX PA (HOFF/) HOFFMAN S.
 PA (CARU/) CARUCCI D.
 PA (GARD/) GARDNER M.
 PA (VENT/) VENTER J C.

XX Hoffman S, Carucci D, Gardner M, Venter JC;
 XX PI
 DR 2000-365347/31.
 XX PT Proteins encoded by chromosome 2 of the human malaria parasite,
 PT Plasmodium falciparum, useful as antimalarial vaccines and in the
 PT diagnosis of P.falciparum infection.

XX Disclosure: Page 564; 577pp; English.

XX The present invention describes proteins and their fragments (I) encoded
 CC by chromosome 2 of the human malaria parasite, Plasmodium falciparum.
 CC Also described are: (1) nucleotide sequences (II) encoding (I); and (2)
 CC vaccines against P. falciparum infection comprising (I) or (II). (I) and
 CC (II) are useful for the development of vaccines against P. falciparum
 CC infection. (I) and polyclonal antisera or a monoclonal antibody raised to
 CC immunogens comprising the sequences of (I), are useful in the detection
 CC of infection with P. falciparum. Furthermore, (I) (especially when they
 CC are rRNA or secreted or membrane proteins) can aid the identification
 CC of drugs to treat or prevent P. falciparum infection, or they can be used
 CC to identify drug resistance in P. falciparum. Sequencing of the
 CC Plasmodium chromosome 2 and the subsequent identification of proteins
 CC encoded by the complexity of the parasitic lifecycle, and
 CC provides new targets for vaccine and drug development. Parasite resistance
 CC to drugs and mosquito resistance to insecticides have led to a resurgence
 CC of malaria in many parts of the world, and there is a pressing need for
 CC vaccines and new drugs. AAA70078 to AAA70387 and AAB1814 to AAB18352
 CC represent nucleotide and protein sequences given in the present
 CC invention, but which are not specifically mentioned within the
 CC specification

XX Sequence 675 BP; 300 A; 71 C; 91 G; 213 T; 0 U; 0 Other;
 SQ Query Match 3.8%; Score 1B; DB 3; Length 675;
 Best Local Similarity 100.0%; Pred. No. 94;
 Matches 18; Conservate 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAAATAATGGAAACACA 19
 ||||| ||||| ||||| |||||
 Db 625 GAAATAATGGAAACACA 642

Search completed: November 3, 2006, 20:46:05
 Job time : 279.593 secB

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OM nucleic - nucleic search, using sw model

Run on: November 3, 2006, 20:46:30 ; Search time 2594.63 Seconds
(without alignments)

Title: US-10-764-316-5

Perfect score: 468

Sequence: 1 tggaaaataatggaaacacac.....tggatgattcgaggagatt 468

Scoring table: Oligo_NTC

Gapext 60.0 , Gapext 60.0

Searched: 6366136 seqs, 31973710525 residues

Word size : 1

Total number of hits satisfying chosen parameters: 12730034

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : GenBank:
 1: gb_env:
 2: gb_dat:
 3: gb_ph:
 4: gb_pl:
 5: gb_pr:
 6: gb_to:
 7: gb_sts:
 8: gb_ty:
 9: gb_un:
 10: gb_vl:
 11: gb_ov:
 12: gb_htg:
 13: gb_in:
 14: gb_om:
 15: gb_da:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	467	99.8	1991	15 AF373206	AF373206 Escherichia
2	467	99.8	2305	15 ECDTABC	U03293 Escherichia
3	462	98.7	462	15 AY351905	AY351905 Escherich
4	462	98.7	462	15 AY351906	AY351906 Escherich
5	462	98.7	462	15 AY351907	AY351907 Escherich
6	302	64.5	494	15 AY46341	AY46341 Escherich
7	298	63.7	463	15 AF373205	AF373205 Escherich
8	185	39.5	495	15 AY46340	AY46340 Escherich
9	94	9.4	822	2 AX140193	AX140193 Sequence
10	44	9.4	10241	15 AY578329	AY578329 Escherich
11	41	8.8	417	15 AY162217	AY162217 Escherich
c 12	21	4.5	136195	12 BX465849	BX465849 Zebrafish
c 13	21	4.5	141587	12 AC128885	AC128885 Rattus no
c 14	21	4.5	191669	12 AC175073	AC175073 Bos tauru
c 15	21	4.5	107439	12 AC108709	AC108709 Homo sapi
c 16	20	4.3	36255	12 AC016208	AC016208 Homo sapi
c 17	20	4.3	59281	5 AC084872	AC084872 Homo sapi
c 18	20	4.3	83102	2 CQ869791	CQ869791 Sequence

ALIGNMENTS

RESULT 1	AF373206	LOCUS	AF373206 Escherichia coli strain MBU. E 412	DNA linear	BCT 22-JUL-2005
		DEFINITION	(cdtB) gene, complete cds; and unknown genes.		
		ORGANISM	Escherichia coli		
		VERSION	AF373206.4	GI:49912092	
		KEYWORDS	Bacterium; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Escherichia.		
		SOURCE	Escherichia coli		
		ORGANISM	Escherichia coli		
		VERSION	1 (bases 1 to 1991)		
		REFERENCE	Bouzari,S., Oloomi,M. and Oswald,E.		
		AUTHORS	Bouzari,S., Oloomi,M. and Oswald,E.		
		TITLE	Detection of the cytolethal distending toxin cdtB among diarrheagenic Escherichia coli isolates from humans in Iran		
		JOURNAL	Res. Microbiol. 155 (2), 137-144 (2005)		
		PUBMED	15748977		
		REFERENCE	2 (bases 1 to 1991)		
		AUTHORS	Bouzari,S., Oloomi,M. and Zarepoor,M.		
		TITLE	Direct Submission		
		JOURNAL	Submitted (22-APR-2001) Molecular Biology, Institute Pasteur of Iran, Pasteur Ave., Tehran 13164, Iran		
		REFERENCE	3 (bases 1 to 1991)		
		AUTHORS	Bouzari,S., Oloomi,M. and Zarepoor,M.		
		TITLE	Direct Submission		
		JOURNAL	Submitted (14-JUN-2004) Molecular Biology, Institute Pasteur of Iran, Pasteur Ave., Tehran 13164, Iran		
		REMARK	Sequence update by submitter		
		REFERENCE	4 (bases 1 to 1991)		
		AUTHORS	Bouzari,S., Oloomi,M. and Zarepoor,M.		
		TITLE	Direct Submission		
		JOURNAL	Submitted (24-JUN-2004) Molecular Biology, Institute Pasteur of Iran, Pasteur Ave., Tehran 13164, Iran		
		REMARK	5 (bases 1 to 1991)		
		AUTHORS	Bouzari,S., Oloomi,M. and Zarepoor,M.		
		TITLE	Direct Submission		
		JOURNAL	Submitted (07-JUL-2004) Molecular Biology, Institute Pasteur of Iran, Pasteur Ave., Tehran 13164, Iran		
		REMARK	Sequence update by submitter		

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ORIGIN

	Query Match	Match	Score	Length	Best Local Similarity	Best Local Matches	Conservative Matches	Mismatches	Indels	Gaps	Organism	Title	Journal	Pubmed	Reference	Authors	Accession	Keywords	Source	Organism	REference	Authors	RESULT							
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DEFINITION	Escherichia coli strain GB1807 cytolethal distending toxin (cdtB)	Qy	362 AATCGGGCGTGGATTCAAGGAAATTGTAAATAGTTGTTGAGTCCTCACAGACRA 421
Geno,	partial cds.	Db	361 AATCGGGCGTGGATTCAAGGAAATTGTAAATAGTTGTTGAGTCCTCACAGACRA 420
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BACTERIA: Proteobacteria; Gammaproteobacteria; Enterobacteriales;			
Enterobacteriaceae; Escherichia.			
REFERENCE	1. (bases 1 to 462)	RESULT	5
AUTHORS	Pandey, M., Khan, A., Das, S.C., Sarkar, B., Kahali, S., Chakraborty, S., Chatterjee, S., Yamasaki, S., Takeda, Y., Nair, G.B. and Ramamurthy, T.	LOCUS	AY351907
TITLE	Association of Cytolethal Distending Toxin Locus cdtB with Acute Enteropathogenic Escherichia coli Isolated from Patients with Acute Diarrhea in Calcutta, India	DEFINITION	Escherichia coli strain GB1371 cytolethal distending toxin (cdtB)
JOURNAL	J. Clin. Microbiol. 41 (11), 5277-5281 (2003)	ACCESSION	AY351907
PUBLMED	14605183	VERSION	AY351907.1
REPERE	(bases 1 to 462)	KEYWORDS	GI:34101074
AUTHORS	Pandey, M., Khan, A., Das, S.C., Sarkar, B., Kahali, S., Chakraborty, S., Chatterjee, S., Yamasaki, S., Takeda, Y., Nair, G.B. and Ramamurthy, T.	ORGANISM	Escherichia coli
REFERENCE	1. (bases 1 to 462)	REFERENCE	Escherichia.
AUTHORS	Pandey, M., Khan, A., Das, S.C., Sarkar, B., Kahali, S., Chakraborty, S., Chatterjee, S., Yamasaki, S., Takeda, Y., Nair, G.B. and Ramamurthy, T.	AUTHORS	Chakraborty, S., Chattopadhyay, S., Yamasaki, S., Takeda, Y., Nair, G.B. and Ramamurthy, T.
TITLE	Direct Submission	TITLE	Association of Cytolethal Distending Toxin Locus cdtB with Acute Diarrhea in Calcutta, India
JOURNAL	Submitted (24-JUL-2003) Microbiology, National Institute of Cholera and Enteric Diseases P-33, CIT Road, Scheme, XM, Bellaghata, Calcutta, West Bengal 700010, India	JOURNAL	J. Clin. Microbiol. 41 (11), 5277-5281 (2003)
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CDS	<1. . >462 /gene="cdtB"	JOURNAL	Submitted (25-JUL-2003) Microbiology, National Institute of Cholera and Enteric Diseases, P-33, CIT Road, Scheme, XM, Bellaghata, Calcutta, West Bengal 700010, India
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Sequence Comparison Report							
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VERSION	AY126341	AY126341	VERSION	AY126341.1 GI:37575478	DB	AF373205 Escherichia coli	(cdtB) gene, partial cds.
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ORGANISM	Bacterium; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Escherichia.		ORGANISM	Bacterium; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Escherichia.	1	GI:20395545	Bacterium; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Escherichia.
REFERENCE	Pickett,C.L., Lee,R.B., Eyiogor,A., Elitzur,B., Fox,E.M. and Stockbine,N.A.	REFERENCE	PIKETT,C.L., LEE,R.B., EYIOGOR,A., ELITZUR,B., FOX,E.M. AND STOCKBINE,N.A.	RESULTS	7	AF373205	AF373205
AUTHORS	Patterns of Variations in Escherichia coli Strains That Produce Cytolethal Distending Toxin	TITLE	Patterns of Variations in Escherichia coli Strains That Produce Cytolethal Distending Toxin	AUTHORS	AF373205	AF373205	Escherichia coli
JOURNAL	Infect. Immun. 72 (2), 684-690 (2004)	JOURNAL	Infect. Immun. 72 (2), 684-690 (2004)	JOURNAL	1	1	Bouzari,S., Oloomi,M. and Zarepoor,M.
PUBMED	14742509	PUBMED	14742509	PUBMED	2	2	Bouzari,S., Oloomi,M. and Zarepoor,M.
REFERENCE	2 (bases 1 to 494)	REFERENCE	2 (bases 1 to 494)	REFERENCE	15748977	2 (bases 1 to 463)	Detection of the cytolethal distending toxin cdtB among diarrheagenic Escherichia coli isolates from humans in Iran
AUTHORS	Pickett,C.L., Lee,R.B., Eyiogor,A., Elitzur,B., Fox,E.M. and Stockbine,N.A.	AUTHORS	PICKETT,C.L., LEE,R.B., EYIOGOR,A., ELITZUR,B., FOX,E.M. AND STOCKBINE,N.A.	AUTHORS	15748977	1	Res. Microbiol. 156 (2), 137-144 (2005)
JOURNAL	Submitted (01-OCT-2003) Microbiology, Immunology, and Molecular Genetics, University of Kentucky, 800 Rose Street, Lexington, KY 40536, USA	JOURNAL	Submitted (01-OCT-2003) Microbiology, Immunology, and Molecular Genetics, University of Kentucky, 800 Rose Street, Lexington, KY 40536, USA	JOURNAL	1	1	Direct Submission
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CDS

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DEFINITION Escherichia coli cytolethal distending toxin B type IV (catB-IV)
Gene, Partial cds.
ACCESSION AY162217
VERSION AY162217.1
KEYWORDS
SOURCE Escherichia coli
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 Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales
 Enterobacteriaceae; Escherichia.
REFERENCE Toth, I., Herra, F., Beutin, L. and Oswald, E.
AUTHORS
TITLE Production of Cytolethal Distending Toxin by Pathogenic Escherichia coli Strains Isolated from Human and Animal Sources: Establishment of the Existence of a New cdt Variant (Type IV) J. Clin. Microbiol. 41 (9), 4285-4291 (2003)
JOURNAL
PUBLMED 12958258
REFERENCE Oswald, E.
AUTHORS
TITLE Direct Submission
JOURNAL Submitted (11-OCT-2002) INRA960 de Microbiologie Moleculaire, INRA-ENV, 23 chemin des Capelles, Toulouse 31000, France
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REFERENCE Barker, G.
AUTHORS
TITLE Direct Submission
JOURNAL Submitted (10-NOV-2005) Wellcome Trust Sanger Institute, Hinxton Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
 2fish-help@sanger.ac.uk. Clone requests:
 http://www.sanger.ac.uk/Projects/D_reario/faqs.shtml#dataeight
COMMENT On Nov 10, 2005 this sequence version replaced gi:41392538.
DEFINITION BX465849/C BX465849 136195 bp DNA linear VRT 10-NOV-2005
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DEFINITION complete sequence.
ACCESSION BX465849
VERSION BX465849.10 GI:811605375
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ORGANISM Danio rerio
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DEFINITION 1 (bases 1 to 136195)
REFERENCE
AUTHORS
TITLE
JOURNAL

Center: Wellcome Trust Sanger Institute
 Center code: SC
 Web site: <http://www.sanger.ac.uk>
 Contact: zfish-help@sanger.ac.uk

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality > 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:

Em:, EMBL; Sw:, SWISSPROT; Tr:, TREMBL; Wp:, WORMBP; Information on the WORMBP database can be found at <http://www.sanger.ac.uk/projects/C-elegans/wormpep>

Clone-derived Zebrafish pUC subclones occasionally display inconsistency over the length of mononucleotide A/T runs and conserves TA repeats, where this is found the longest good quality representation will be submitted.

Any regions longer than 1kb tagged as misc-feature 'unsure' are part of a tandem repeat of more than 10kb in length where it has not been possible to anchor the base differences between repeat copies. The region has been built up based on the repeat element to match the total size of repeat indicated by restriction digest, but repeat copies may not be in the correct order and the usual finishing criteria may not apply.

DKEY-2631B is from a Zebrafish BAC library

VECTOR: pindigoBAC5-5.

FEATURES source

1. 136195
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 /mol_type="genomic DNA"
 /Db_xref="taxon:7955",
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ORIGIN

RESULT 13
 AC128885 LOCUS 141587 bp DNA linear HTG 20-NOV-2002
 DEFINITION Rattus norvegicus clone CH230-334P14, *** SEQUENCING IN PROGRESS
 MATCHES 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 400 TTTGAGTCCTCAACAGACA 420
 Db 95145 TTTGAGTCCTCAACAGACA 95125

REFERENCE

AC128885 Muzny, D. Marie, Meteker, M. Lee, Abramzon, S., Adams, C., Alder, J., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, R., Baldwin, D., Bandaraaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswal, K., Blair, J., Blakenben, K., Blayth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Caesar, H., Cavazos, I., Chen, G., Chen, Y., Chen, Z., Chu, J., Chacko, J., Chavez, D., Chen, R., Chien, Y., Cree, A., Cree, M., Croy, E., Cox, C., D'Souza, L., Cleveland, C., Cockrell, R., Cox, C., Coyne, M., Cree, A., D'Souza, L., Davila, M.R., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,

Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escott, M., Eugene, C., Evans, N., Flagg, N., Forbes, L., Foster, M., Foster, P., Fernandez, S., Finley, M., Garcia, A., Garner, T., Garza, M., Fraser, C.M., Gabisi, A., Ganta, R., Garcia, A., Grady, M., Guerra, W., Gubratiene, P., Haaland, W., Hamil, C., Hamilton, C., Hernandez, J., Harvey, Y., Haylik, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S.L., Hodges, A.J., Hogues, M., Hollins, B., Howell, S., Huly, S., Hume, J.J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, R., Johnson, R., Jolivet, A., Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorenshawa, L., Loulseged, H., Lozada, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindarane, M., Mahmoud, M., Mailoy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martinez, E., McLeod, M.P., McNeill, T.Z., Meenen, B., Milosavljevic, A., Miner, G., Minja, E.B., Montemayor, J.J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokellem, O., Olarupunsoo, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Plopper, P., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S., Sanders, N., Savery, G., Scheerer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C., Smajs, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J., Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejo, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, P., Williams, G., Wilson, R., Wilezyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, D.R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G., and Gibbs, R.A.

TITLE Unpublished
 JOURNAL
 AUTHOR(S) 2 (bases 1 to 141587)
 COMMENT
 TITLE Direct Submission
 JOURNAL
 AUTHOR(S) Worley, K.C.
 COMMENT
 TITLE Direct Submission (24-JUL-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
 REFERENCE 3 (bases 1 to 141587)
 AUTHOR(S) Rat Genome Sequencing Consortium
 TITLE Direct Submission
 JOURNAL
 AUTHOR(S) Unpublished
 COMMENT 2 (bases 1 to 141587)
 TITLE Direct Submission
 JOURNAL
 AUTHOR(S) Worley, K.C.
 COMMENT
 TITLE Direct Submission (20-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
 REFERENCE On Nov 20, 2002 this sequence replaced gi:23195910. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas assembly (a contig-scaffold). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.
 CENTER Genome Center
 CENTER CODE BCM
 WEB SITE <http://www.hgsc.bcm.tmc.edu/>
 CONTACT hgsc-help@bcm.tmc.edu
 PROJECT INFORMATION
 CENTER PROJECT NAME: KAXT

Center clone name:	CH230-334P14	Query Match	4.5%; Score 21; DB 12; Length 141587;
Assembly Statistics		Best Local Similarity	100.0%; Pred. No. 0.68; Mismatches 0; Indels 0; Gaps 0;
(see http://www.hgsc.bcm.edu/docs/genbank/draft_data.html)		DEFINITION	AC175073 Bos taurus clone CH230-334P14, *** SEQUENCING IN PROGRESS ***, 29 unordered pieces.
Consensus quality: 127905 bases at least Q40		ACCESSION	AC175073.2 GI:86200618
Consensus quality: 130224 bases at least Q30		VERSION	HTGS_DRAFT; HTGS_ENRICHED.
Consensus quality: 131369 bases at least Q20		SOURCE	Bos taurus (cattle)
Estimated insert size: 129726 sum-of-contigs estimation		ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation		RESULT 14	AC175073 191669 bp linear HTG 31-JAN-2006
* NOTE: Estimated insert size may differ from sequence length	*	LOCUS	Bos taurus clone CH230-245G12, ***
(* see http://www.hgsc.bcm.edu/docs/genbank/draft_data.html)	*	DEFINITION	SEQUENCING IN PROGRESS ***, 29 unordered pieces.
* NOTE: This is a 'working draft' sequence. It currently	*	ACCESSION	AC175073.2 GI:86200618
* consists of 4 contigs. The true order of the pieces	*	VERSION	HTGS_DRAFT; HTGS_ENRICHED.
* is not known and their order in this sequence record is	*	SOURCE	Bos taurus (cattle)
* arbitrary. Gaps between the contigs are represented as	*	ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
* runs of N, but the exact sizes of the gaps are unknown.	*	RESULT 14	AC175073 (bases 1 to 191669)
* this record will be updated with the finished sequence	*	LOCUS	AC175073.2 GI:86200618
* as soon as it is available and the accession number will	*	DEFINITION	SEQUENCING IN PROGRESS ***, 29 unordered pieces.
* be preserved.	*	ACCESSION	AC175073.2 GI:86200618
* 1 105419: contig of 105419 bp in length	*	VERSION	HTGS_DRAFT; HTGS_ENRICHED.
* 105420 105519: gap of unknown length	*	SOURCE	Bos taurus (cattle)
* 105520 138656: contig of 33137 bp in length	*	ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
* 138656: gap of unknown length	*	RESULT 14	AC175073 (bases 1 to 191669)
* 138757 140163: contig of 1407 bp in length	*	LOCUS	AC175073.2 GI:86200618
* 140164 140263: gap of unknown length	*	DEFINITION	SEQUENCING IN PROGRESS ***, 29 unordered pieces.
* 140264 141587: contig of 1324 bp in length.	*	ACCESSION	AC175073.2 GI:86200618
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source	1. organism="Rattus norvegicus"	SOURCE	Bos taurus (cattle)
	/mol type="genomic DNA"	ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
	/db_xref="taxon:10116"	RESULT 14	AC175073 (bases 1 to 191669)
	/clone="CH230-334P14"	LOCUS	AC175073.2 GI:86200618
gap	105420 .105519 /estimated length=unknown	DEFINITION	SEQUENCING IN PROGRESS ***, 29 unordered pieces.
misc_feature	105520 .107531 /note="wgs contig"	ACCESSION	AC175073.2 GI:86200618
gap	138657 .138756 /estimated length=unknown	VERSION	HTGS_DRAFT; HTGS_ENRICHED.
gap	140164 .140263 /estimated length=unknown	SOURCE	Bos taurus (cattle)
ORIGIN		ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
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		LOCUS	AC175073.2 GI:86200618
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		SOURCE	Bos taurus (cattle)
		ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
		RESULT 14	AC175073 (bases 1 to 191669)
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		ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
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		LOCUS	AC175073.2 GI:86200618
		DEFINITION	SEQUENCING IN PROGRESS ***, 29 unordered pieces.
		ACCESSION	AC175073.2 GI:86200618
		VERSION	HTGS_DRAFT; HTGS_ENRICHED.
		SOURCE	Bos taurus (cattle)
		ORGANISM	Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Bovidae; Bovinae; Bos
		RESULT 14	AC175073 (bases 1 to 191669)
		LOCUS	AC175073.2 GI:86200618

Consensus quality: 173988 bases at least Q20
 Estimated insert size: 175814; sum-of-contigs estimation
 Quality coverage: 5x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 (see URL: http://www.hgsc.bcm.tmc.edu/docs/Genbank/draft_data.html).
 * This is a 'working draft' sequence. It currently
 * consists of 29 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 1361: contig of 1361 bp in length
 * 1362 2075: gap of 714 bp
 * 2076 6680: contig of 4605 bp in length
 * 6681 6780: gap of unknown length
 * 6781 11436: contig of 4656 bp in length
 * 11437 12103: gap of 67 bp
 * 12104 13463: contig of 1360 bp in length
 * 13464 13670: gap of 207 bp
 * 13671 17094: contig of 3424 bp in length
 * 17095 17503: gap of 409 bp
 * 17504 21392: contig of 3889 bp in length
 * 21393 21492: gap of unknown length
 * 21493 36367: contig of 14875 bp in length
 * 36368 36417: gap of 50 bp
 * 36418 42996: contig of 6579 bp in length
 * 42997 43046: gap of 50 bp
 * 43047 55330: contig of 12284 bp in length
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 * 55381 57120: contig of 1740 bp in length
 * 57121 65692: gap of 8572 bp
 * 65693 68984: contig of 3292 bp in length
 * 68985 69034: gap of 50 bp
 * 69035 71002: contig of 1968 bp in length
 * 71003 71053: gap of 50 bp
 * 71053 77566: contig of 6514 bp in length
 * 77567 78438: gap of 872 bp
 * 78439 82513: contig of 4075 bp in length
 * 82514 82563: gap of 50 bp
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 * 92824 92873: gap of 50 bp
 * 92874 96190: contig of 3317 bp in length
 * 96240 96241: gap of 50 bp
 * 96241 99785: contig of 3545 bp in length
 * 99786 100388: gap of 602 bp
 * 100388 108058: contig of 7670 bp in length
 * 108058 108107: gap of 50 bp
 * 108108 120856: contig of 12749 bp in length
 * 120857 120906: gap of 50 bp
 * 120907 126815: contig of 5909 bp in length
 * 126815 126865: gap of 50 bp
 * 126865 133104: contig of 6239 bp in length
 * 133105 133204: gap of unknown length
 * 133205 161407: contig of 28203 bp in length
 * 161408 161457: gap of 50 bp
 * 161458 178544: contig of 17087 bp in length
 * 178545 178644: gap of unknown length
 * 178644 180645: contig of 2001 bp in length
 * 180646 180745: gap of unknown length
 * 180745 181866: contig of 1121 bp in length
 * 181866 181867: gap of unknown length
 * 181867 182136: contig of 1170 bp in length
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 * 183237 184890: contig of 1654 bp in length
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 Best Local Similarity 100.0%; Pred. No. 0.7;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 385 ATTGTAAATAGTTGTTGTA 405
 Db 29658 ATTGTAAATAGTTGTTGTA 29638

RESULT 15
 AC107439/c
 LOCUS Rattus norvegicus clone CH230-229M1, *** SEQUENCING IN PROGRESS
 DEFINITION Rattus norvegicus (Norway rat)
 *** 8 unordere pieces.

AC107439
 AC107439.5 GI:25075945
 HTGS PHASE1; HTGS DRAFT; HTGS ENRICHED.
 Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammal; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Rattus.
 1 (bases 1 to 229M1)

REFERENCE
 AUTHORS Muzny, D. Marie., Merzker, M. Lee., Abramzon, S., Adams, C., Alder, J.,
 Allen, C., Allen, H., Alabrooks, S., Aman, A., Angulano, D.,
 Anvalbechhi, V., Ayragi, A., Ayodeji, M., Baca, E., Baden, H.,
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 Location/Qualifiers 1. .191669

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Consensus quality: 179520 bases at least Q20
Estimated insert size: 178417; sum-of-contigs estimation
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.edu/docs/Genbank\_draft-data.html).
* This is a 'working draft' sequence. It currently
* consists of 8 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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*      10411 10510: gap of unknown length
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*      224480 229932: contig of 5253 bp in length
*      229932 229612: gap of unknown length
*      229612 230065: contig of 1033 bp in length
*      230065 230666: gap of unknown length
*      230666 231997: contig of 1232 bp in length
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Mon Nov 6 11:55:52 2006

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